February 12th—18th, 1987, No. 7

75¢

THE Fisherman

LONG ISLAND, METROPOLITAN NEW YORK EDITION

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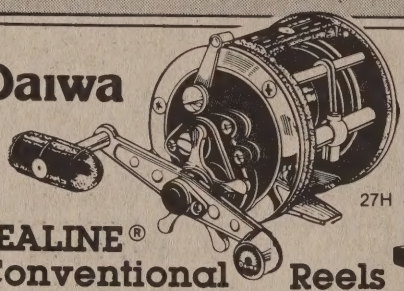

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47HS	Sealine Levelwind	$40.99
50H	Sealine Jigging	$36.99
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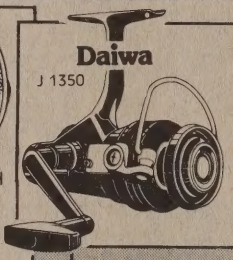

J1050	UL	3.7 gear ratio, 200 yds./6 lb. line capacity	$ 8.99
J1350	ML	3.7 gear ratio, 180 yds./8 lb. line capacity	$ 8.99
J1650	M	3.7 gear ratio, 200 yds./10 lb. line capacity	$10.99
J2050	ML	3.7 gear ratio, 200 yds./12 lb. line capacity	$12.99
J2600	MH	3.7 gear ratio, 200 yds./15 lb. line capacity	$14.99
J4000	MH	3.9 gear ratio, 200 yds./20 lb. line capacity	$18.99

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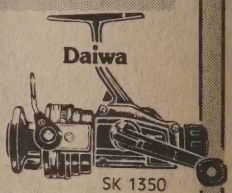

SK750	UL	4.6 gear ratio, 165 yds./4 lb. line capacity	$18.99
SK1050	LT.	5.1 gear ratio, 200 yds./6 lb. line capacity	$19.99
SKA1055	LT.	5.1 gear ratio, 200 yds./6 lb. line auto cast	$19.99
SKA1355	ML	5.1 gear ratio, 180 yds./8 lb. line auto cast	$18.99
SKA1655	M.	4.6 gear ratio, 200 yds./10 lb. line auto cast	$21.99
SKA2055	MH.	4.6 gear ratio, 200 yds./12 lb. line auto cast	$24.99

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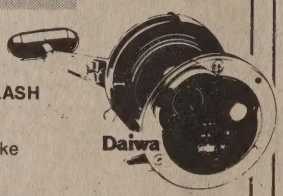

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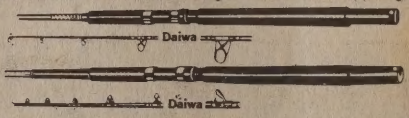

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SGC 23HG	7'	1 piece, 20-50 lb. Boat Wire	$42.99
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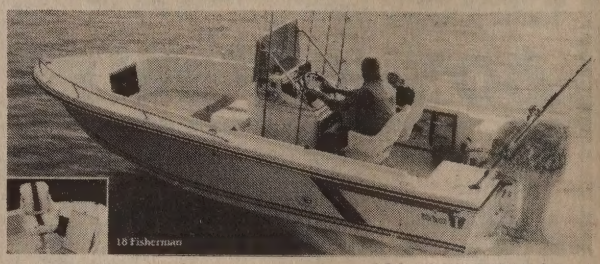
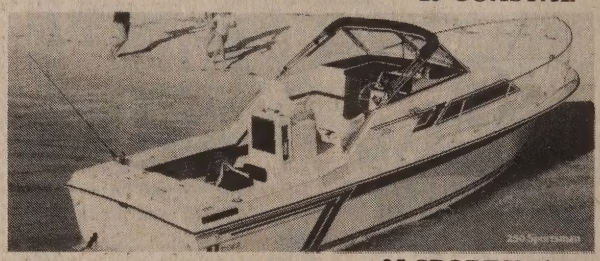
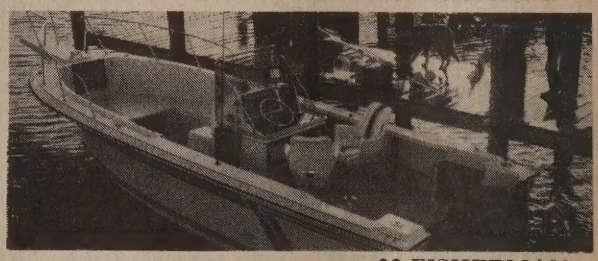


180 FISHERMAN



25 SPORTSMAN



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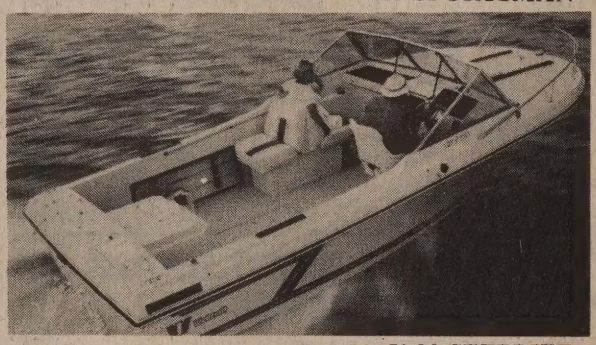
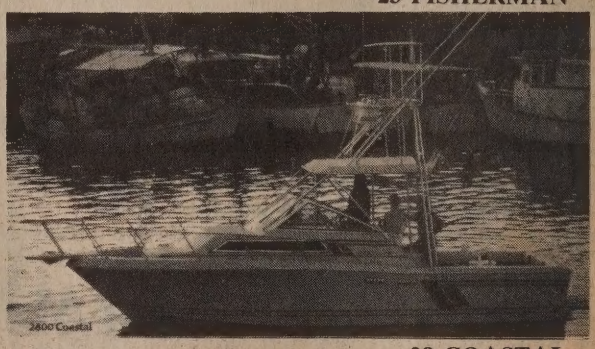


V-20 STEPLIFT



28 COASTAL

See Us At The Long Island Boat Show

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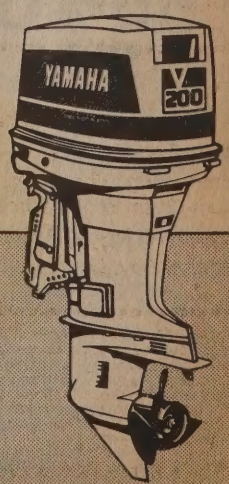
EXPECT A LOT.



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THE Fisherman

LONG ISLAND, METROPOLITAN NEW YORK EDITION

Volume 22, Number 7 February 12th, 1987

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ABOUT THE COVER:

Shopping for a new or used boat is very much on the minds of many anglers during this boat show season. Boatmen will have another opportunity to view some of the lastest nautical creations at the Long Island Boat Show, berthed at Nassau Coliseum in Uniondale, from February 14th through 22nd.

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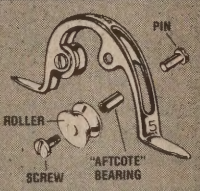

A simple rinsing with fresh water after each use, and guides with "Aftcote" bearings perform perfectly for years. "Aftcote," a dry-film lubricant bonded to the bearings for life, keeps the action silky-smooth, shrugs off saltwater and corrosion, and cannot wash off!

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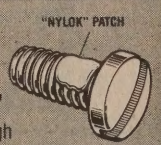

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PASS IT ON

SENATOR OWEN H. JOHNSON TO SPEAK AT T.U. MEETING

Senator Owen H. Johnson is a State Legislator who not only has sponsored, and co-sponsored, many bills to protect and preserve our state's environment but is also concerned for the welfare and well being of all people of Long Island and New York State in its entirety.

Senator Owen H. Johnson, Republican, represents the 4th State Senatorial District, which is part of the Towns of Babylon, Huntington and Islip in Suffolk County. He has been a State Senator for 14 years as of January 1, 1987.

Senator Johnson is a lifelong resident of the Town of Babylon. He attended West Babylon Grade School and Babylon High School. He graduated from Hofstra College in 1956 with a B.A. degree in History-Political Science.

Senator Johnson, a veteran of the U.S. Marine Corps, is the founder and past commandant of South Shore Detechment, Marine Corps League.

Mr. Johnson is a member and former councilman of Cross of Christ Lutheran Church, Babylon; a member of the Board of Directors of the Babylon Town Chapter of the American Red Cross; vice chairman of Babylon Town Unit of the Salvation Army; governor of Sky Island Club; member of Babylon Lodge No. 793, F.&A.M.; past chairman of Foster Grandparents Program in Suffolk County; and a member of the Advisory Committee of Polytechnic Institute of New York.

Senator Johnson has been cited by many community, business and fraternal organizations for his interest and achievments. Among them are: New York State Association of Counties "Legislator of the Year" award in 1984; King George E.F.M.& A.M. Grand Lodge, Ltd., certificate award and "man of the Year" designation; New York State Sportsmen's "Citation for Achievement"; Marine Corps League certificate of appreciation for outstanding and dedicated service; "The Fisherman's Friend Award," presented by The Long Island Fisherman; Hofstra Univerity's Estabrook Award in 1979 and Bay Shore-Islip's Youth Athletic Club appreciation award, 1984.

In addition to his standing committee assignments, Senator Johnson is a member of the New York State Senate Special Committee on Culture Industry; chairman of Environmental Conservation Subcommittee on Long Island Marine District; and other. On the national level, Senator Johnson is a member of the Board of Directors and the Executive Committee of the American Legislative Exchange Council, the nation's largest individual membership organization of state legislators. He is also New York State's legislative representative to the Atlantic States Marine Fisheries Commission.

New York State Senate standing committee assignments, 1985-1986: Social Services, chairman; Banks; Commerce, Economic Development and Small Business; Environmental Conservation; higher education and transportation. As chairman of the Senate Social Services Committee, Senator Johnson has begun several innovative employment programs aimed at ending welfare dependency and reducing the state's welfare expenditures.

Senator Johnson is married and resides with his wife, Christel, son Owen, and daughter Christen in West Babylon.

The Long Island Chapter of Trout Unlimited will be honored by having Senator Johnson as the speaker for their monthly meeting at 8PM March 19th in the auditorium of the St. Martin of Tours R.C. Church in Bethpage at the corner of Broadway and Central Avenue.

SOME SOUND ADVICE FROM CAPT. IRV LEVINE

Captain Irv Levine, best known for his popular Captains Course, reminds boatmen that very often your chart (small craft, Loran C, offshore) is ineffective due to changes in aids to navigation, navigational hazards, regattas, bridge construction, etc.

The best and perhaps the only way to correct these changes is published by the U.S. Coast Guard and it is free. This information is published weekly and is titled "Local Notice to Mariners." This booklet can be obtained by sending a letter to the Coast Guard requesting that you would like to be put on their mailing list, re Local Notice to Mariners. The address is U.S. Coast Guard, Governors Island, New York, NY 10004. Be sure to print your name and address legibly on your request.

Unfortunately, the airwaves, especially the emergency channels are blocked by stupid if not illegal conversation preventing the mariner in distress from trying to reach the Coast Guard or any craft for assistance. Although this piece of equipment is not a substitute for a VHF radio, the EPIRB may very well be the most important piece of equipment on your vessel. The following is an excerpt from Local Notice to Mariners, 11-18-36:

Emergency Position Indicating radiobeacon (EPIRB). According to the National Transportation Safety Board (NTSB) over 200 United States fishing vessels are lost at sea each year. A number of these casualties

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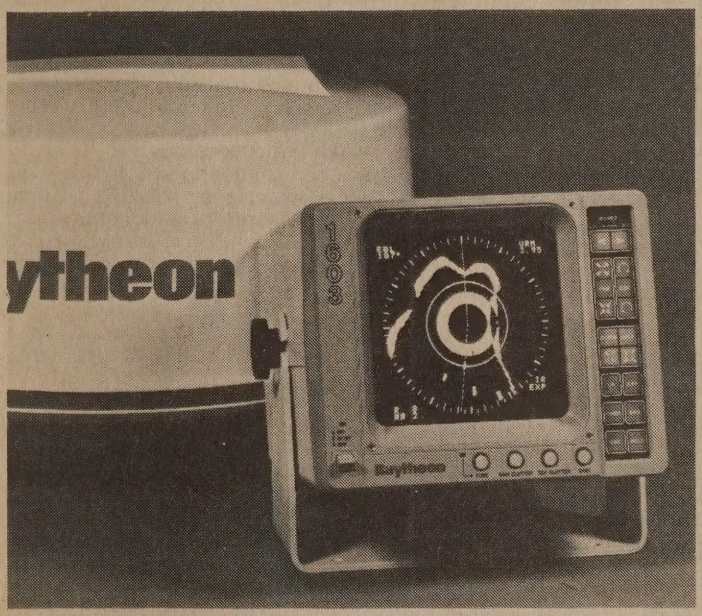

16-mile Radome Unit features a high-resolution, very sharp, 9-inch ultra-bright TV-type display with VRM, EBL, SeaGuard alarm, and target expansion. Also available from Raytheon, the leader in Raster Scan technology, the open-antenna Model 2403 Radar with 24-mile range.

- High-resolution (512-line), 9-inch display
- Exceptionally bright continuous 360° picture
- One-level, high-intensity video for exceptional target pick up
- SeaGuard (guard ring with adjustable sectors and range) warns against possible collision
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- Variable Range Marker (VRM)
- Target Expansion enhances small targets
- Interference Rejection (IR)
- Rain and Sea Clutter controls
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- Picture "freeze" permits extended study
- Easy installation with removable, plug-in display for safe storage
- Two-year limited warranty

1603 Raster Scan Radar with Antenna

V-700: More video fishfinding performance than ever before!

The compact, weatherproof V-700 gives you over 50% more power, 40% larger video screen and many unique features–all with only one hull penetration.

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- Sharp, hi-res, 8-level amber video display
- 7-inch diagonal CRT provides a 40% larger screen than 6-inch models
- 150-watt rms, 1200-watt p-p transmitter–has 1½ times the power of competitive models
- Automatically finds and displays bottom at turn-on
- Full and split-screens show full depth, mid-water zooms and exclusive water temperature graph
- Memory recalls Lat/Long or TD, water depth and temperature for up to 10 events
- Alarms for fish-windows, min/max depths, water temperature
- Two-year limited warranty
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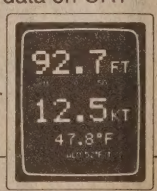

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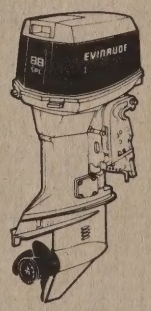

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resulted in loss of life and extensive, unsuccessful searches. Many other cases have been successfully resolved with a minimum search effort because the vessel carried an EPIRB. EPIRBs are a relatively inexpensive piece of livesaving gear which the Coast Guard highly recommends. The Coast Guard encourages all commercial fishing vessels and other uninspected vessels to carry an EPIRB—it could save your life.

BOATING COURSE IN LINDENHURST

Flotilla 1-4 of the U.S. Coast Guard Auxiliary is offering their acclaimed 10 lesson Safe Boating Course in Lindenhurst. Beginning Tuesday, March 3rd, the course will be offered at the Lindenhurst Junior High School, located on Wellword Avenue in the village of Lindenhurst. The class begins at 8PM and will run for 10 weeks. The lectures offered will include piloting, aids to navigation, legal requirements, radio communications and rules of the road, to name a few. There is a cost of $15 for the text book and work book.

Registration is at 7:30 on March 3rd or you may pre-register and obtain additional information by calling FSO-PE Joe Blanchard at 643-4064.

BASIC BOATING IN FREEPORT

On Tuesday, February 24th, the South Shore Power Squadron will hold its spring registration for Basic Boating in the Freeport High School Lunch Room. The course will be held on Tuesday evenings from 8PM to 10PM lasting 10 weeks. The course consists of all aspects of safe boating with a special emphasis on navigation.

Certificates will be awarded to all those who complete the course entitling them to an insurance deduction of up to 15 percent at most insurance companies.

BOAT MAINTENANCE TAPE IS VALUABLE REFERENCE

A new video entitled "Boat Maintenance" is now available from Bennett Marine Video. This tape is a welcomed aid for any boat owner who desires increased knowledge of how to keep his boat in top shape.

Eventually most boaters experience problems with the engine, head, plumbing, or electrical systems of their boats. While this video does not show the layman how to completely overhaul a gas or diesel engine, it does provide information on the most common problems. This arms the owner with sufficient information to perform routine maintenance. Many common problems are avoided or at least properly diagnosed.

While learning routine maintenance procedures the viewer also gains valuable knowledge about the mechanics of the boat. If repairs become necessary, he will be in a better position to evaluate repair estimates.

This very practical tape has the ad-

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ded advantage of being constantly available for quick reference in the privacy and comfort of the viewer's home.

Suggested retail price of Bennett Marine's "Boat Maintenance" tape is $49.95.

From Bennett Marine Video, 730 Washington St., Marina del Rey, CA 90292; (213) 821-3329.

SEN. JOHNSON TO HOLD MARINE DISTRICT HEARING

State Senator Owen H. Johnson (4th S.D., Babylon) today announced that the Senate Subcommittee on the Long Island Marine District will hold a public hearing at 10:30AM, Saturday, February 21st, at the Babylon Town Hall, 200 East Sunrise Highway, Lindenhurst, New York. The Long Island legislator is chairman of the subcommittee and he also is legislative chairman of the Atlantic States Marine Fisheries Commission.

The hearing will focus on three legislative proposals: the licensing of resident commercial finfishermen, prohibiting the mechanical dredging of hard clams from public lands for relaying and banning the use of tributyltin (TBT) anti-foulant paints.

Although not pertaining to recreational fishermen, the licensing proposal would require separate resident and non-resident commercial fishing licenses in marine waters of the state. The legislation would also create an 11 member marine resources advisory committee, made up of commercial and recreational harvesters of marine resources.

The Department of Environmental Conservation (DEC) has been putting greater emphasis on the removal of clams from uncertified shellfish grounds and placing them into certified waters, a process known as relaying. Requests from private companies to take shellfish from public grounds have been on the increase. The proposal would require that all clams being removed from uncertified state-owned shellfish grounds for transfer to private lands be dug by hand.

TBT is now the active ingredient in most popular vessel hull paints. Paint containing TBT retards the growth of marine organisms on vessel hulls and results in the more efficient use of fuel. Recent evidence indicates that the TBT found in these paints frequently leaches into the water and may be doing severe damage to the environment. Even in extremely minute concentrations, TBT has been found to be lethal to shellfish larvae. Both France and England have banned the unrestricted use of TBT. The proposal before the subcommittee would ban the use of TBT paints on most vessels less than 12 meters long.

For copies of the proposals, or to reserve a specific time to testify, call Senator Johnson's District Office, 23-24 Argyle Square, Babylon, NY, (516) 669-9200. Testimony will be limited to 10 minutes. Written testi-

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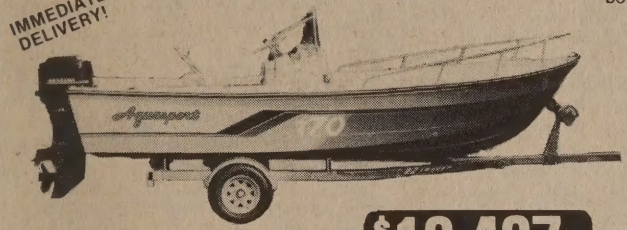

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mony is encouraged; parties submitting written testimony are requested to provide five copies.

OUTCAST ANGLERS MOURN BILL SORGER

The Outcast Anglers mourn the passing of our valued charter member, Bill Sorger. Bill dedicated his talents whenever they were needed. His great sense of humor was appreciated by his fellow anglers. Bill Sorger, a beloved husband and father. He will be sorely missed.

MISTER MARINE JOINS MARINELAND

Sonny Panzarella, V.P. at Marineland, is happy to announce that Mister Marine, located at the corner of Guy Lombardo Avenue and Atlantic Avenue in Freeport has joined the Marineland family. The location is now known as "Marineland-Freeport" and, of course, will continue to be run by its very popular team of Dave Milius, president and Eric Kochansky.

SURFSIDE 3 TUNA CLUB OPEN HOUSE

Surfside III Tuna Club will have an open house on March 5th. Meeting at 8:30 PM at the Harbor House Restaurant at the foot of Maple Avenue, Bay Shore. There will be lure and fishing demonstrations plus food will be served. Come attend the meeting. It should be an interesting night and we're also looking for some new members.

For information, call Jim Kavanagh at (516) 737-6541, 8:00 to 3:30.

LOCAL SEA TOW OPERATORS OFFER NEW LOW PRICE

In 1983, the Coast Guard announced it would respond to calls for a tow only after dark, in bad weather, where there is a threat to life, or where a qualified commercial firm cannot provide timely assistance. As a result, a privately owned group called Sea Tow was formed in 1984 to provide recreational boaters with non-emergency assistance. Sea Tow, based on the concept of the Triple A, offers unlimited towing to members at one low fee per season and provides towing services to non Sea Tow members as well.

Captains Rob and Bruce Sweet of Sea Tow Services Great South Bay/ Freeport and Captains Jim and George Friel of Sea Tow Services Lower New York Bay, are offering a price reduction of 50 percent on Sea Tow memberships at the Long Island Boat Show this month.

Sea Tow's services include towing, rope or net disentanglements, fuel drops, etc. With other commercial firms charging from $65 to $100 per hour the Sea Tow program, with its low seasonal fee (which covers unlimited calls) is excellent protection.

The Sea Tow operators are Coast Guard qualified and Coast Guard licensed. They maintain a high level of standards with the boater's safety as the top priority.

For more information, see Captains Jim Friel, Rob Sweet or Bruce Sweet at booth #30 (next to The Long Island Fisherman's booth) at the Long Island Boat Show, February 14th-22nd, or call Rob or Bruce Sweet at (516) 669-1824 or Jim or George Friel at (718) 338-3093.

SEN. JOHNSON ANNOUNCES FREE CONSERVATION FILMS

State Senator Owen H. Johnson (4th S.D., Babylon) announced today that the New York State Department of Environmental Conservation (DEC) Film Loan Library has many wildlife films that are available to schools and organizations free of charge. These films are not available to individuals.

Available titles include: "Return of the Wild Turkey," "Story of the Mourning Dove" and "America's Wetlands." Instructional films, such as "First Aid in the Wilderness" and "Before You Hunt." The films were made possible by funds provided by "Return a Gift to Wildlife."

For a brochure listing available films and ordering information, contact Senator Johnson at 23-24 Argyle Square, Babylon, NY 11702, (516-669-9200.

'87 PENN COLOR CATALOG HAS BOTH REELS AND RODS

It's a match made for all great fishing waters of the world! In the new 1987 Penn catalog, you can learn everything there is to know about the marriage of Penn reel tradition to Penn rod technology.

Penn's 1987 catalog is a 64-page collection of facts, figures and photographs of the more than 100 reels and dozens of rods custom crafted by Penn. Included are a host of new offerings from the Philadelphia-based manufacturer.

A direct offspring of this recent fish fighting union is the Penn Stand-Up System. This couples International and Senator reels with the new Tuna Stick rods, which feature short, fast taper, powerful butt actions. Penn has expanded its current series of rods with new trolling, conventional and spinning models, too. Even new surf rods are on the Penn menu!

Also in this new catalog, Penn introduces two-speed gearing in a versatile 50-80 lb. class reel. The new 50SW has a one piece anodized aluminum frame for extra strength and the same dual-disc drag system and unique speed shift feature that has made larger International II models the favorite of successful tournament anglers. Shift down for power, up for speed.

Penn has also expanded its line of tubular frame reels with three new International models: the 50T, 80T and 80TW. All three reels provide the superior torque resistance required for long battles with big game fish.

Another new offering in the 1987 Penn catalog is the 320GTi, a level wind reel with a graphite frame and titanium line guide. Built with an over-

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Mariners from 4 to 200 horsepower have CD ignition for quick, sure starts. We've added oil injection to all electric start models from 40hp on up, to assure a more accurate gas and oil mix and a longer engine life. We build them with rugged lower units and internal parts that endure the industry's toughest testing. To make sure they keep running, Mariners are coated inside and out to protect critical engine components. It means your Mariner is more corrosion and abrasion resistant on all parts that come in contact with water.

We also offer an extended product protection plan to make sure they live up to our expectations, and yours. And with our exclusive MMAC financing option, we make it easier to own a Mariner-powered boat than ever before.

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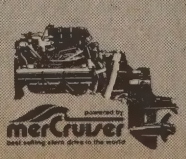

sized drag and handle, the 320 GTi will tackle fish like trophy king salmon with ease.

For a copy of the 1987 Penn catalog, send $2 to: Penn Fishing Tackle Mfg. Co., Inc., Dept P, 3028 West Hunting Park Avenue, Philadelphia, PA 19132; (215) 229-9415.

COMMACK RESIDENT RECEIVES HIGH COAST GUARD AUXILIARY AWARD

Division 22 of the U.S. Coast Guard Auxiliary (North Shore) has announced that Mr. Robert P. Flanagan, Sr. of 2 Silo Road, Commack was the recipient of the Division's Captain award for 1986.

This award represents acknowledgement of the "Outstanding and devoted service to the USCG Auxiliary." One member is chosen eah year and Mr. Flanagan is the 11th member to be so honored.

Mr. Flanagan was chosen for this high honor due to his many efforts on behalf of the Auxiliary and boating public on Long Island Sound. Some of his activities are: patrol during the 4th of July celebration in N.Y. Harbor with 7 Search and Rescue cases; over 185 hours on patrol in Long Island Sound with over 20 search and rescue cases; teaching boating safety classes; inspecting local vessels for safety in the Auxuliary Vessel Examination program; obtaining 6 new members for the Auxiliary; and other efforts.

The Division Captains Award was presented to Mr. Flanagan at the Annual Change of Watch Dinner, held Jan. 10th at the Larkfield Manor in East Nortport, by immediate past Division Captain Lawrence Spanier and Division 22 Captain for 1987, Len Pretty.

SEWANHAKA POWER SQUADRON BOATING COURSE

Sewanhaka Power Squadron, a unit of the U.S. Power Squadrons will again teach the Safe Boating Course for Power and Sail as part of the Adult Education Program at several local schools. Tuition is free with a small charge for materials. It is not necessary to own a boat for the course.

Oceanside H.S., Monday, Feb. 23
Garden City H.S., Wed., March 4
Elmont H.S., Wed., March 11
Herricks C.C., Wed., March 11
New Hyde Park H.S., Thurs., March 12
Sewanhaka H.S., Thurs., March 12

All classes start at 7:45 PM.

Long Island is one of the best and largest boating areas in the country. The 1986 boating season was marred by a number of accidents (some fatal) which could have been avoided. A knowledge of safe boating practices such as safe fueling procedures, rules of the road, chart familiarization, aids to navigation, obeying speed limit signs and limiting alcohol drinking could have made the season safer and happier. Other benefits include reduced boat insurance premiums.

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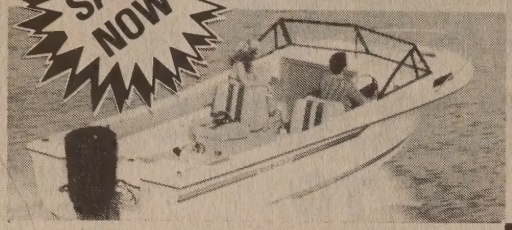

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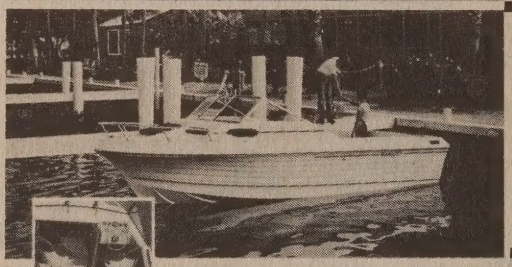

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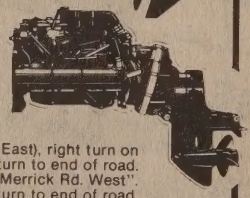

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ATLANTIS ANGLERS FEBRUARY 24 OPEN MEETING

The Atlantis Anglers of Freeport, will have Mr. Tony Loperfido as our guest speaker. Tony is a master fisherman, holder of three world records. Anything that you ever wanted to know about any kind of fishing you could ask him on this night. He's done it all.

I'm sure it will be a very informative evening. If you're thinking of joining a club, come be our guest for the night.

The club meets at the Salty Bay Yacht Club, 180 Westside Avenue, Freeport, NY on February 24th at 8PM sharp.

For any additional information, please call, Jay Ebbets, (516) 766-4381 or Ralph Horowitz, (516) 889-0931, after 7PM.

MORICHES BOATING COURSE

The Moriches Bay Power Squadron is proud to announce that our spring Safe Boating Class will be held at the William Floyd High School beginning on February 24th. Our Squadron Educational Officer, Warren Burch, has requested that all parties interested in taking this worthwhile course, please register at 19:30 hours (7:30PM).

Topics include: sailboat and powerboat handling; rules of the road; docking and anchoring; plotting a course on a chart; finding a boat's position; using a compass; trailering; weather; engine troubleshooting; and water ski safety.

All those interested and would like more information, please call Past Commander Newton Homan, (516) 878-1177 or Squadron Educational Officer Warren Burch, (516) 878-1887.

BABYLON TUNA CLUB FISHING SCHOOL

The Babylon Tuna Club's (BTC) fishing school will be held at the American Legion Hall, 22 Grove Street in Babylon. Registration according to Chairman, Ralph Perone will begin at 7PM on February 11th and the first session will follow at approximately 8PM. There will be a total of 8 sessions which will include both offshore and inshore fishing. Each session will be conducted by an expert and many techniques learned from years of experience will be shared with attendees. Free coffee and cake will be served each night. Cost of entire class will be $25 and anyone who wishes the join the BTC will have that cost deducted from their initiation dues. Children 14 years old and younger are welcome and their cost will be $12.

Classes are scheduled as follows: February 11, 18 and 25; March 4, 11, 18 and 25 and April 1st. All begin at 8PM.

Also, there will be various films

shown about reel maintenance, rod winding, rope slicing, line splicing, knot tying and use of navigational equipment including Loran. For additional information, call Ralph Perone at (516) 669-9837.

COMMISSION ASKS PRESIDENT REAGAN TO LEAD "CRUSADE"

The President's Commission on Americans Outdoors today urged President Reagan to "lead a crusade" to improve and protect the natural resources Americans use for recreation, in a summary report released by Tennessee Gov. Lamar Alexander, chairman of the commission.

The commission calls on Reagan to ignite "a new prairie fire of concern and investment, community by community, that can keep our outdoors great." The report summary emphasizes action to be taken by private groups, cities and states rather than the federal government. Cities, states and private groups are urged to protect valuable open spaces and link them in a system of "greenways."

But commissioners also recommend a dramatic increase in support for recreation from the federal government. "We suggest dedicating at least one billion dollars a year to an outdoor trust to succeed the Land and Water Conservation Fund in 1989," Gov. Alexander said in the letter transmitting the report to the President. While the Land and Water Conservation Fund is authorized to receive $900 million annually from federal oil revenues, expenditures from the fund have been as high as $800 million only once.

"Our commission found many threats to opportunities for enjoying the outdoors: exotic pollutants, loss of space through urban growth and disappearance of wetlands," Alexander said. "City parks are wearing out.

"More and more, outdoor recreation occurs close to home, in or near towns and cities, where 80 percent of us soon will live. So more and more the solutions must be found close to home," Alexander said.

"We recommend that communities create a network of greenways across the country, that states establish scenic byways, and that governors create outdoor corps to maintain trails and parks.

"There is still a need for a strong outdoor commitment from the nation's capital: to safeguard the environment, to expand recreational opportunities on federal lands and to protect and improve the federal estate," Alexander said.

Alexander was joined by National Geographic Society President Gilbert Grosvenor, vice chairman of the commission. Others of the 15 member commission at the news conference were Derrick Crandall of the American Recreation Coalition; Patric Noonan, president of the Conservation Fund; Stuart Northrop, chairman of the executive committee of the Huffy Corp.; Sally Ranney, president of the American Wilderness Alliance; and Sen. Malcolm Wallop, R-Wyo.

The report summary is a 32-page booklet filled with full color photographs of the country's recreation activities. The summary was produced through the National Geographic Society, which donated the costs of production.

Gov. Alexander said a longer report containing detailed text and recommendations will be completed in January and available from the Government Printing Office in March. Still other volumes will include a 970-page compilation of surveys of academic literature on recreation and summaries of reports from individual states and 25 case studies. The commission, created in 1985, held hearings in 18 states and involved several thousand people in its 16-month study.

Recreation is a $300 billion a year industry the summary says, and the outdoors is "a great health machine, toning up our minds and bodies." Recreation in open space is "a silent social worker" which can reduce crime and delinquency. These benefits are dependent on the use of 1.35 billion acres of private land and about half as much state and federal lands, the commission says.

An aging and increasingly urbanized population seeks outdoor activ-

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That's what *Power and Motoryacht* said about the new Luhrs 340. It's an easy conclusion to draw since this thirty-four was designed by fishermen for fishermen. Standard features include a roomy cockpit, recessed rod holders, cockpit washdown, coaming padding and a welded aluminum marlin tower complete with controls. The 340 is equipped to fish yet she'll sleep a crew of four in comfort.

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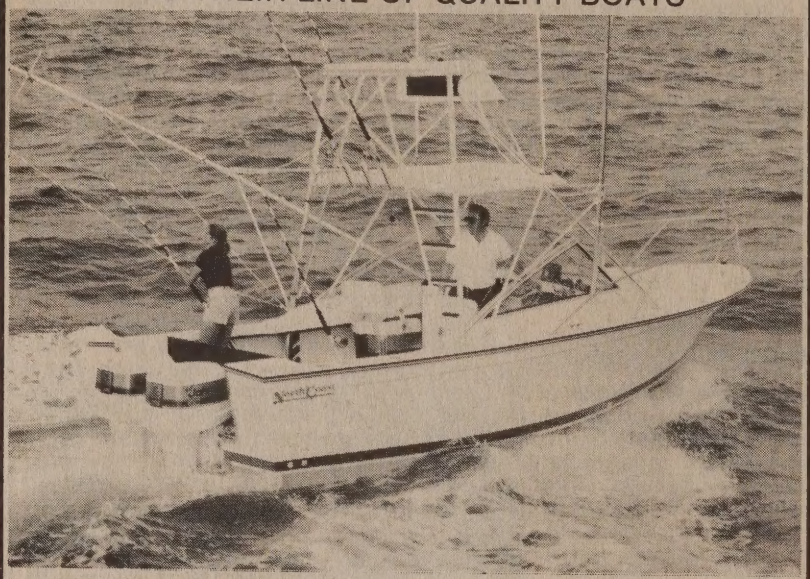

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ities closer to their homes, with a trend toward more vigorous activities. "A quarter century ago, hang gliding was unheard of, and perhaps only 5,000 people had rafted a river. Today some 35 million have experienced a white water rafting trip, and millions of other risk takers soar, ski,climb, snowmobile and windsurf," the summary says.

To help solve recreation problems caused by pollution, overcrowding and diminishing spaces, the President's Commission says, "First of all, we must light a prairie fire of action from community to community." In a foldout satellite photograph of a belt across the United States the summary points to a score of examples where communities already have banded together to work on such problems, ranging from the successful South Bronx Crotona Park Rangers, to the Platte River Greenway Foundation in Denver, to a wildlife habitat project in West Virginia's Monongahela National Forest supported by fees from hunters and fishermen.

"Every American community and group of outdoor enthusiasts should form its own coalition to look ahead for a generation to see what its members will want to do outdoors, plan what it will take to have places for them to do those things, and implement the plan," the commission said in the summary report.

"Local concern and investment will do more than anything else to preserve outdoor opportunities for Americans tomorrow...The President should light the fire and lead the crusade, but most of the action should be *community by community*," the summary said.

"Our communities can create a network of greenways across the U.S.A.," the summary says. "We can tie this country together with threads of green" to make recreation more readily available to large population centers. "Rivers and streams are the most obvious corridors, offering trails on the shores and boating at mid-channel.

"Thousands of miles of abandoned rail lines should become hiking, biking and bridle paths. Utility rights-of-way could share their open space not only with hikers and cyclists, but also with wildlife," the report urges.

"Imagine every person in the U.S. being within easy walking distance of a greenway that could lead around the entire nation. It can be done if we act soon," the report says. Commission members emphasized their greenways proposal is intended for local communities, not to be a federal project.

▸The President's Commission also proposes work toward an "outdoors ethic" expanding environmental education to benefit citizen awareness.

The completed report will be submitted to President Reagan who can then propose any part of the recommendations, all of them or none of them.

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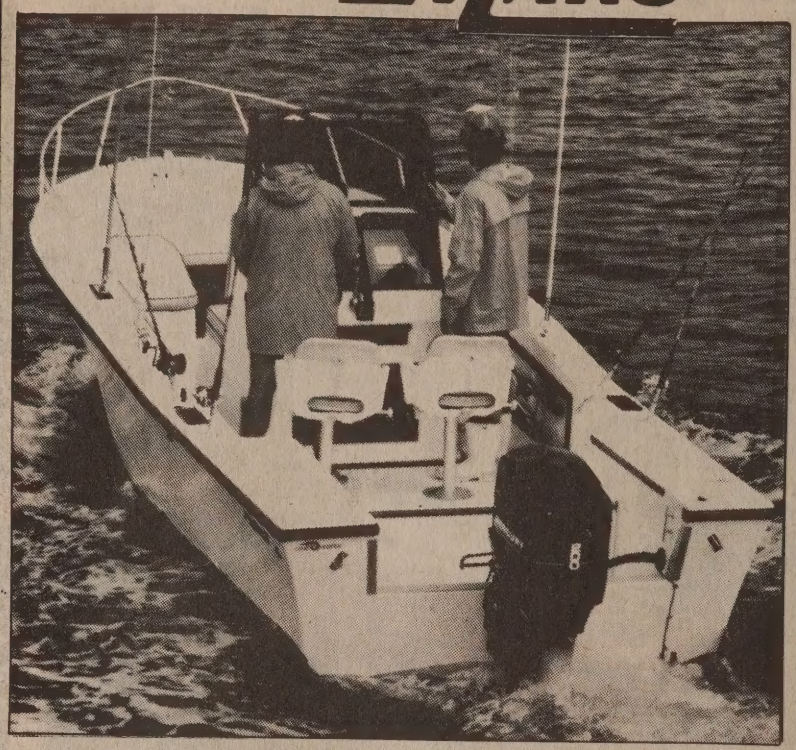

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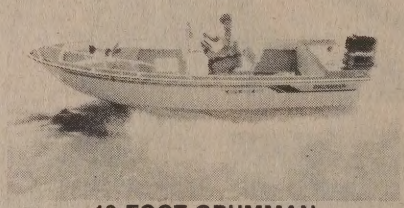
New battery switches from Perko, the world's largest manufacturer of marine navigation lights, hardware and accessories, feature a remote indicator panel for 12 volt systems which allows the vessel operator to monitor which batteries are in use from the helm station.

"Figure 8505 is a standard battery selector switch for switching between batteries 1, 2, ALL or OFF; Figure 8506 serves the same purpose but has a security feature allowing the switch to be locked in the OFF position," said Reginald Ullmann, sales manager, O.E.M. Division.

Both Perko Battery Switches are U.L. listed and have a capacity rating of 250 amps continuous, 360 amps intermittent.

For more information, write Perko, Inc., P.O. Box 64000D, Miami, FL 33164- 0414.



18 FOOT GRUMMAN CENTER CONSOLE

Don't take 10 people aboard Grumman's new 18 foot center console boat. Although that's her rated maximum capacity, you'll have a lot more fun with one or two fishing buddies in all the walkaround space. There's plenty of room in the unique 12 gallon ice chest to keep the food and drink cold. The ice chest, immediately forward of the console with its cushion atop, leads off a list of standard features that includes full bow rail, rod holders, bow casting platform, and bow and side deck trim cushion. More? Bilge pump, lockable rod storage plus additional side and bow compartments. The center console seat is built upon a 20 gallon aerated livewell. There's storage beneath the console, too.

This new boat is 18' 4" long, with an impressive beam of 84 inches and V bottom: stability and soft riding in chop result. Hull weight is 870 lbs. With a maximum engine rating of 120 hp, she'll move rapidly to where the fish are.

The GCC 184 is made of .080 aluminum. Because aluminum is one of the lightest (and strongest) materials exitsing, you'll go farther on a gallon of gas and, of course, you'll go faster with the same horsepower. Boats of heavier materials demand more horsepower to attain similar speeds and miles per gallon. And every Grumman boat exceeds U.S. Coast Guard standards and meets the tougher standards of the National Marine Manufacturers Association.

Review the full list of standard amenities on the new GCC 184 fishing boat. Write Grumman Boats, P.O. Box 549, Marathon, NY 13803 for your free catalog.

HIGH PERFORMANCE PRO V 150 APPEALS TO ANGLERS

When Yamaha introduced its high performance 150 hp Pro V outboard, it was originally designed for the tournament angler. As it turns out, the Pro V has been discovered by waterskiers and other performance-minded boatmen.

The reasons for this broad-based acceptance of the motor can be found in its high performance features. The 1987 Pro V has a high tech look with special graphics setting it apart from the rest of the line. Additional air intakes on the cowl deliver more air to the three 2-barrel carburetors that are the heart of the Pro V. The power is amplified even more by the motor's modified reed valve induction and tuned exhaust.

The Pro V features 4 degrees of negative trim and 16 degrees of positive trim. The negative trim enables skiers and anglers to get their boat on plane quickly.

The motor features a 158 ci block with a high performance streamlined gear case and special 2:1 gear ratio for faster acceleration across the power curve. This special gear ratio allows the motor to transfer more torque to the propeller and use a larger pitch prop. In addition, the Pro V also features hard rubber mounts for better high speed stability and steering response. The computer-designed lower unit knifes through the water with less drag.

Precision Blend Oil Injection is standard for better performance and longer engine life. A true oil injection system, Precision Blend injects the oil directly into the manifold, rather than pre-mixing the fuel and oil as it flows into the carburetor. The Pro V gets the exact amount of lubrication it needs when it needs it with no lag time. The Precision Blend system really works well with the start and stop nature of water skiing and bass angling.

The Pro V shares the consumer features of the entire Yamaha line, including a factory two year limited warranty. It even has an extra connection on the remote control box so anglers can operate the power trim and tilt from the bow. For convenience at the ramp, the motor features a tilt switch on the motor pan, so there's no runn-

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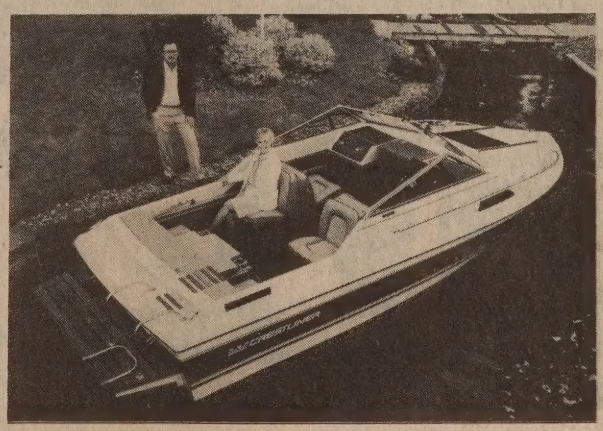

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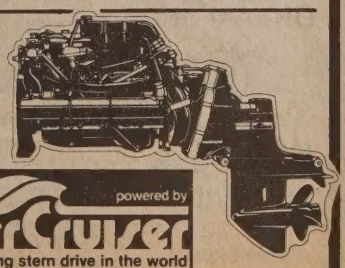

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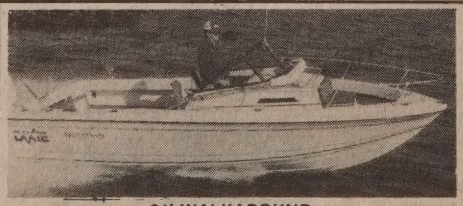
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ing back and forth to the helm when loading and launching the boat.

Batteries are a concern for anglers who use fishing electronics, so they will appreciate the Pro V's 15 amp alternator that generates plenty of charging power at normal running speed.

The Pro V will run on either leaded or unleaded fuel with no loss of performance and no modifications. And all the fuel lines and fuel line components on the Pro V are alcohol resistant.

VORTEX LURES

For many years lure manufacturers have been producing lures incorporating hollow chambers filled with beads of varying materials. The purpose of these bead-filled chambers is to attract fish by making a rattling sound as it moves through the water. Vortex Lures of Kalispell, Montana has taken this concept one step further by introducing a line of lures with scientifically designed chambers having special configurations and containing a high density ballast. The result is a lure that not only rattles, but has the most erratic action of any lure produced so far. As the high density ballast moves around in the special chambers, the balance of the lures constantly changes, causing them to dart, dip, wiggle, roll and pitch exactly like a bait fish whose motor reflexes have been severely damaged. In extensive field tests, these lures have drawn savage strikes from nearly every species of North American game fish. The highly erratic action triggers an automatic strike response even from fish that have recently gorged themselves. Available in five of the most popular body styles from topwater popper to slim minnow, flat wiggler to fat bodied crankbait, Vortex covers the range from top to deep diver. All Vortex lures are painted to match the Color-C-Lector standards.

Two models are of special interest for their unique, high tech engineering. The Electronic Fish Caller is a traditional fat bodied crankbait that contains a sound emitting device run by a 1.5 volt battery. The sound ranges from high to low frequencies through the use of a tone-generating computer and piezo-electric speaker activated by an on-off switch pin. This use of space-age technology to produce a lure that attracts fish by sophisticated sound waves have resulted in greatly improved catches of the major species of freshwater game fish in all areas of the country.

The Lighted Lure series also uses space age technology to attract fish. Both sport and commercial saltwater fishermen have used lighted lures for many years to attract saltwater game fish. The Lighted Lure series of Vortex Lures uses the same principle by incorporating an LED flasher inside the body of these translucent lures. Operated by two 1.5 volt batteries, a motion sensing switch causes the lure to flash red in time to its erratic

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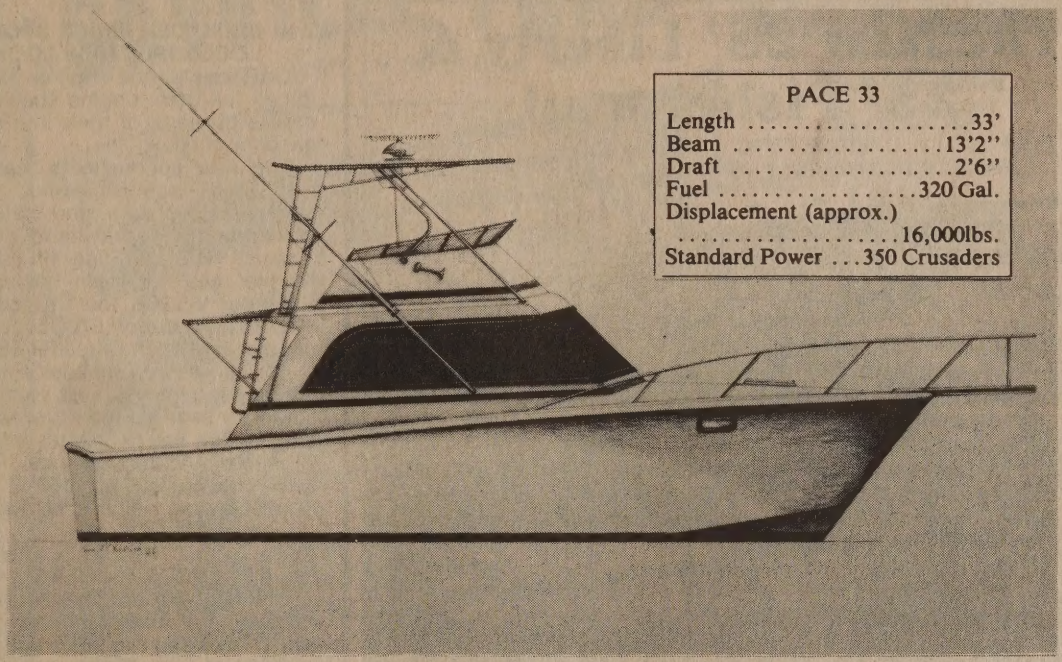

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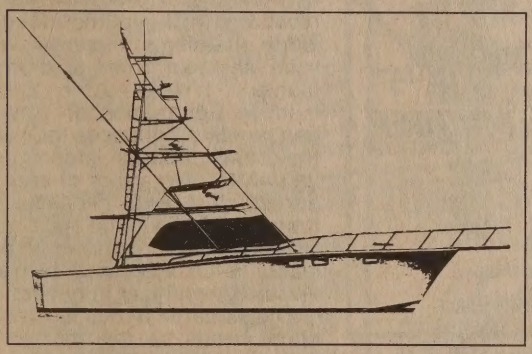

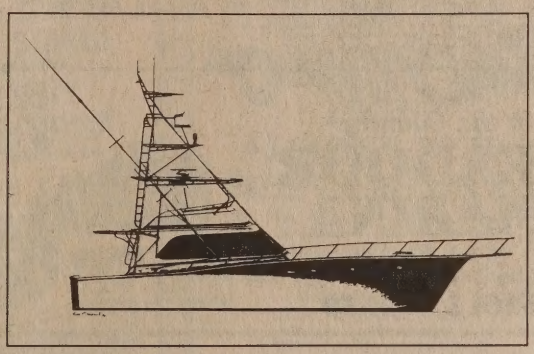

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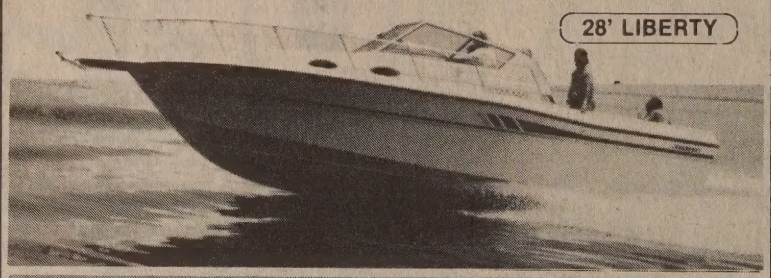

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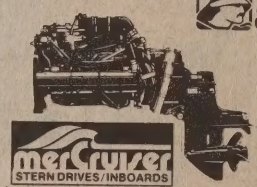

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action. It has proven especially effective for night fishing and fishing in murky or stained water for most species of freshwater game fish. The Lighted Lure series is available in both a shallow and medium running fat bodied crankbait, a slim swimming minnow and a topwater popper.

For more information contact: Wes C. Higgins, Vortex Lures, 640 W. Montana 5901; (406) 752-3555.

CRUSADER SPECS SPORT COLORFUL NEW LOOK

Crusader Marine Engines has introduced full color engine specification sheets for each of their four inboard gasoline models.

The new spec sheets feature dimensional specifications, performance rating data and listings of standard accessories and available options. The full line of Crusader Marine gas inboards include the Crusader V-6/262, the Crusader 220/305, the Crusader 270/350 and the popular big block Crusader 350/454.

For copies of Crusader's new gas model spec sheets, visit your marine dealer, or send a short note indicating the model you're interested in to: Crusader Marine Engines, Thermo Electron Corporation, 7100 E. 15 Mile Road, Sterling Heights, MI 48077.

SPEEDTROL ELECTRIC DOWNRIGGERS

Downriggers are the 20 year old miracle age deep trolling devices which captured the heart and soul of millions of Great Lakes anglers after the amazing Lake Michigan chinook and coho salmon introductions. The early downriggers were crude, but now electric models have completely revolutionized trolling tactics on North America's inland lakes, reservoirs, western rivers and impoundments.

Incoe Corporation of Troy, Michigan proudly announces the release of their 1987 product line of downriggers. After nine years of engineering development and intensive testing from Alaska to Florida and around the Great Lakes, Incoe feels this year's model is the finest and most reliable electric downrigger in fishing history.

The Model 84 Series Electric Downrigger heads up the 1987 Speedtrol downrigger line. It features an automatic shut-off in the up cycle, hold position switches, ball bearing mounted main shaft, stainless steel clutch, premolded plug and wire harness and 200 feet of stainless steel downrigger wire. All units are anodized, and have weather sealed electronics.

A unique feature of the 1987 Speedtrol Model 84 is a patented swivel head assembly which eliminates jammed cables. It features a "Tunnel Feed' system, and a stainless steel main shaft. Retro fits for other major manufacturers are available.

The broad accessory line offers single and double rod holders, pedestal mounts, swivel bases, up-swing bases, universal mounts and a com-

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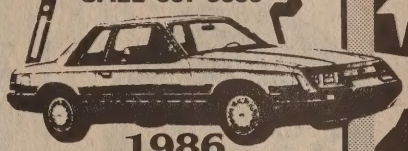

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For more information: Speedtrol, 404 Parkview Lane, Frankfort, Michigan 49635; (616) 352-9688.

SAF-T-GAF SAID ONLY GAFF SAFE TO CARRY

Saf-T-Gaf is a new folding hook, patented landing gaff that the manufacturer Shurkatch/Ruff'N Ready says is safe to carry. The high-impact, black plastic and stainless steel gaff stays with the hook harmlessly folded out of harm's way until it's needed. With a "quick flick," the Saf-T-Gaf works when it's wanted to work.

Unbreakable polypropylene handle floats and is available in 24, 36 and 48 inch lengths. It is designed not to become tangled or hooked into gear, boat cushions, loose clothing, other tackle or even the user (the company claims that there are 250,000 gaff hook related accidents treated in U.S. hospital emergency rooms each year).

Saf-T-Gaf retails for $18.95 to $20.95. More information available by contacting Shurkatch/Ruff'N Ready, 507 Alden Street, Fall River, MA 02722, or by calling 800-272-4223.

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In deep-cycle applications, Stowaway outlasts 4-5 automotive batteries and provides the fisherman and boater with staying p;ower for electric trolling motors, depth finders, lights, bilge pumps and navigational instruments. Stowaway also provides RV and camping trailer users with power to enjoy all the comforts of home: fans, radios, water systems, TVs and lights.

Its high-powered combination of deep cycle and starting power makes Stowaway the ideal choice for dual purpose applications. Here, it provides an extra measure of security for fishermen, boaters and RV owners.

The Stowaway features: a Calcium Plus grid alloy that improves charge acceptance and resists deterioration due to cycling and overcharge; a Duratex structural foam polypropylene case to absorb the punishment of recreational usage; quick-connect, stainless steel stud terminals; and a rope handle with molded grip for easier transport and installation.

GNV Incorporated, headquartered in St. Paul, Minnesota, is the world's largest independent manufacturer of lead/acid batteries for use in boats, cars, trucks, off-road and construction equipment, farm implements, golf carts, recreational vehicles, motorcycles and a broad range of industrial applications.

For more information, contact: Noreen Chervanek or Jim Trenter, GNB Incorporated, P.O. Box 64100, St. Paul, MN 55164-0100; (612) 681-5000.

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Manufactured in Canada, Heav-A-Buoy has a multitide of other uses too: boat launching or retrailering; docking into the wind or current; anchoring small craft; dock safety throwing line; fishing or buoy marker; ice rescue; tow rope; or simply around the family swimming pool.

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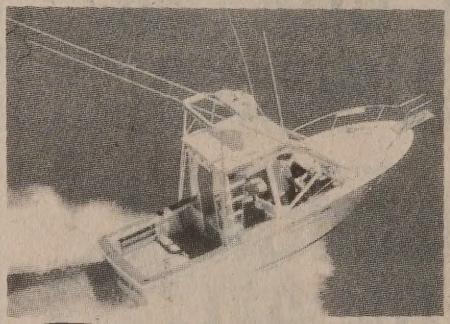

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Aimed right at the center of the most wanted sizes, Tohatsu offers a 40, a 30 and a 25 hp model as part of its 12 model line-up for 1987. All Tohatsus feature advanced engineering designs, high performance, rugged dependability plus a high degree of saltwater corrosion protection. Originally designed for Japanese commercial ocean fishermen, the motors had to be ruggedly made to stand up under such use. The fact that Tohatsu is the oldest outboard manufacturer in Japan, having been in continuous production for over 32 years, proves how well they have attained this goal.

The 40, the 30 and the 25 are all two cylinder, two-stroke engines with high torque powerheads, heavy duty crankshafts and bearings. Displacement is 493 cc. (30.1 cu. in.), 430 cc. (26.3 cub in.) an 397 cc. (24.2 cu. in.) respectively. The 40 weights in at 130.1 lbs. while the 30 weights 101.4 lbs. and the 25 comes in at 99.2 lbs. All three are available in either electric or manual start. All three have automatic rewind manual starter even when equipped with electric start, a mighty handy feature on those mornings when you find your boat has a dead battery. Since all three have flywheel magnetos to feed the solid state capacitance discharge ignition system, they will start and run whether or not there is a battery connected into the system.

These mid-range outboards all have full F-N-R gear shifts and twist grip throttle controls, but all can be rigged with remote controls and steering. The steering angle on the 25 is a full 74 degrees while the 30 and the 40 turn through 80 degrees of arc, which means that a boat rigged with any of them can be turned within its own length at slow speeds.

The cooling systems are thermostically controlled and also include a pressure relief valve to prevent buildup and when running at full throttle for long periods of time. The water pump itself consists of a stainless steel liner fitted inside a pump case which is made of a petro chemical resin. The impeller is made of a specially formulated rubber which resists heat deformation and the buildup of salts and chemicals.

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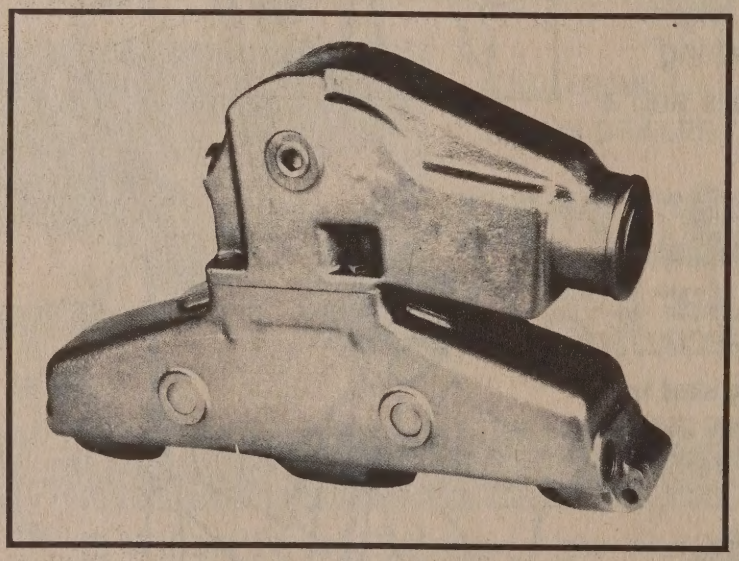

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Added to this is a pulse-tuned exhaust system which harnesses the energy of the escaping burned gases to assist in scavenging the combustion chamber. This also ups performance and decreases fuel consumption.

A host of other engineering features make the Tohatsu line-up a rugged, long lived, high performing series of marine engines. The top hp rating is a 70 hp model. Below it is a two cylinder 55. Also offered are motors of 18, 15, 9.9, 8, 5 and 2.5.

Tohatsu outboards are distributed in the East by Tohatsu USA, 1211 Avenue of Americas, New York, NY 10036. This firm also distributes Dynous Performance Inflatables. A complete stock of motors, parts and accessories is maintained in the firm's Hauppauge, LI warehouse.

EAGLE CLAW'S BLACK EAGLE REEL

Eagle Claw fishing tackle of Denver, Colorado, has just added another reel to the popular family of Black Eagle reels.

It is the Model 4060 and is designed for heavy fresh water or light saltwater. The reel weighs 17 ounces; gear ratio is 4.6 to 1 and line capacities (lb. test/yards) is 15/340, 20/270, 30/180 or 40/130.

The Black Eagle features: right or left hand retrieve, silent anti-reverse, powerful helical gearing, hard chromed turning line roller, manual or automatic bail release and spool drag adjustment.

Eagle Claw has been making fishing tackle for over 60 years.

For further information contact Linda martin, Wright & McGill Co., P.O. Box 16011, Denver, CO 80216.

NEW RAYTHEON LORAN

Raytheon's new RAYNAV-570 Loran C Navigator provides fully automatic operation covering all worldwide stations on a compact, weatherproof unit, built to withstand the rigors of continuous use, even in exposed installations. Ergonomically designed, the Raynav-570 has extra large readouts that are arranged with the most important information displayed in the largest size. The back-lit, high contrast LCD data display is easy to see, in direct sunlight or at night. A typical display simultaneously shows Lat/Long or TD position information, distance and bearing to waypoint, speed, course, time to go and bar graph steering guide on a five line screen.

Unlike many units, the Raynav-570 not only lets the user enter waypoints as either Lat/Long or TD coordinates, but also by range and bearing. To provide the highest degree of accuracy possible, the 100 waypoint Raynav-570 automatically selects best GRI chain and secondary loran stations. Navigation is made easier with automatic correction features for

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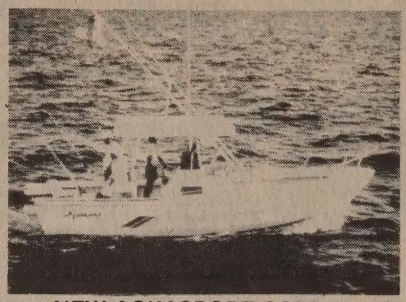
true to magnetic course variation, and for loran signal deviation (ASF).

Up to 16 different electronic "pages" of data can be called up, including information such as velocity towards destination and along route, course made good, distance traveled from start, and cross track error. Audible and visible alarms and special functions are also provided. Sailboat racers will appreciate the clock, stop watch and time alarms. Fishermen might select the waypoint "arrival" alarm to signal the approach to fishing grounds. The anchor watch warns if a boat drifts beyond preset limits, and alarms also warn if a boat exceeds preset steering limits, or if receiver signals drop below optimum levels.

The Raynav-570 has one preset and six automatically adjusted notch filters to eliminate unwanted noise interference. NMEA 0180 and 0183 outputs allow interface with plotter, autopilot, sounder, and radar equipment.

The Raynav-570 is so compact it's perfect for any boat. With adjustable yoke braket, the indicator measures only 7-5/8" W by 5-1/4" H by 3" D. An economical trim kit for recessed mounting is also available. Manufacturer's suggested list price for the Raynav-570 Loran C is $1,165, including internal memory back-up battery and antenna coupler, with 15 meters of cable.

Raytheon offers a two year limited parts warranty with one year free labor by any of its U.S. dealers and worldwide service netowrk. For information, contact: Raytheon Marine Company, 46 River Road, Hudson, NH 03051 USA; (603) 881-5200.



NEW AQUASPORT OSPREY CENTER CONSOLE DESIGN

Aquasport's new 250 and 271 Ospreys are center console boats designed to roam the canyons and to land the game fish usually possible only with large sport fishing yachts. Available in the standard Osprey or the more heavily equipped Tournament Master versions, the two boats offer a number of innovative, highly useful features.

For example, the huge center console of the 271 incorporates a bait and tackle prep center with recirculating livewell in the forward portion. Both models also have a fuel management system that allows switching between fuel tanks. With this configuration, the boats can hold enough fuel (206 gallons on the 250; 250 gallons on the 271) for extended forays offshore or long range cruising and trolling.

Generous beam measurements combined with a deep vee hull, also provides for a soft, stable, dry ride. And both boats can accommodate hefty power: 300 hp for the 250 and twin V8s for the 271. Bennett hydraulic trim tabs are also standard on both boats.

Aquasport's Big Catch standard equipment package—the largest in the industry—outfits the boats with all the gear needed to start fishing immediately. That includes teak recessed rod racks, flush rod holders, storage lockers and three fish boxes with macerator pumps and overboard discharge for easy cleanup and to prevent clogged drains. A circulating livewell keeps bait fresh, while built-in, custom tackle drawers keep lures and other equipment organized and readily at hand.

Both the 250 and 271 also offer recessed teak gunwale boards, indirect cockpit lighting, navigation lights and an automatic bilge pump, as well as pressurized raw water washdown with a hose, nozzle and selector valve.

Operation from the center console is a pleasure, with full instrumentation (including trim indicators, voltmeter, fuel gauges and a Ritchie compass) plus hydraulic steering. There are also lighted console compartments for charts and other items as

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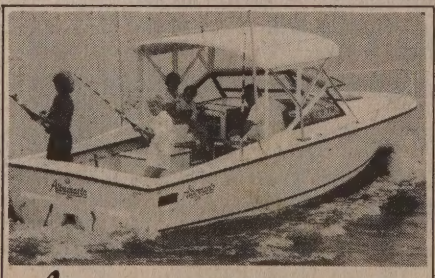

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well as a molded-in locker for the most sophisticated in fish hunting electronics.

For fishermen who want the ultimate in center console fishing, the Tournament Master versions of both the 250 and 271 are the answer. They are the most sophisticated center consoles ever built.

The 250 Tournament Master carries a Salt Shaker half tower or T-top. The 271 is topped with a Salt Shaker low profile tower that carries controls and instruments and is also available with a T-top.

Rounding out the package are Lee rod holders, tower mounted overhead rod rack for 6 rods, cockpit coming bolsters and a useful seawater temp gauge. Outriggers on the 250 are Lee Jr. models, while the 271 carries Lee's tower release 19' poles with single cross spreaders.

"When we set out to build these models," said Albertson, "we set out to bulld big, no compromise campaigners based on the center console design Aquasport pioneered. We've gotten tremendous response so far and expect demand for the 250 and 271 to be very heavy."

Aquasport, a leading innovator in fishing boats since the early 60s recently named a Panel of Experts composed of established fishing professionals to play an integral role in the design of all boats. The company manufactures models from 15 to 29 feet.

TRIMAX FISHING LINE FROM BERKLEY

Berkley research has developed a new fishing line called Berkley TriMax. It results from a new processing technique that interlocks the molecules of three compatible polymer components into three polymetric zones.

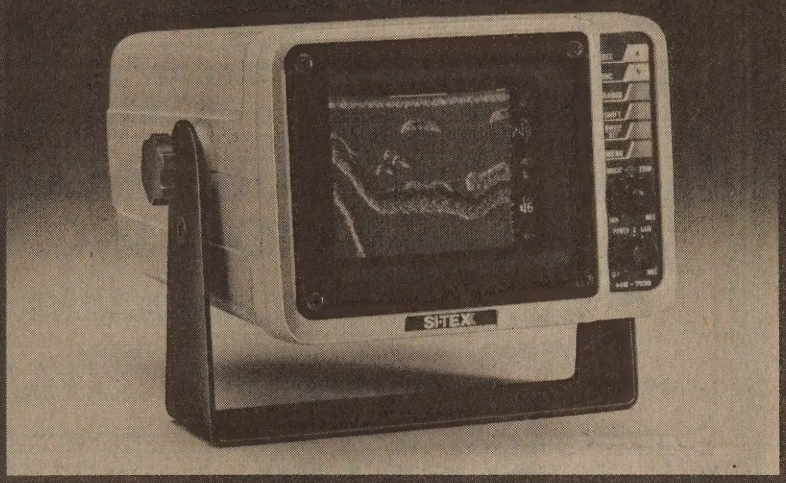
TriMax features maximum strength, abrasion resistance, sensitivity and superb castability. Although most fishing lines change dramtically when wet, losing as much as 20 percent of their strength, TriMax has a high degree of dry to wet stability.

The most impressive characteristic about TriMax is what Berkley researchers have dubbed Fighting Power. Fighting power combines strength and stretch performance to rate the ability of a line to tenaciously withstand the shocks and stresses generated in a fish-fighting situation. This advanced TriPolymer construction provides exceptional fighting power that helps you put more fish in the boat.

If that isn't enough, TriMax is packaged in a factory-sealed ABS plastic reel-fill dispenser pak. This unique dispenser hangs on the rod and has a variable drag to allow proper line tensioning. When your TriMax is spooled, use the container to store hooks, swivels, sinkers and other fishing accessories.

Berkley TriMax is a line for fishermen who want consistent, high level

SIX INCH, SEVEN COLOR SHOW-IT-ALL.



Introducing the new HE-708. A very compact seven-color depth sounder with a very big six-inch screen. Microprocessor circuitry controls most operations to make using it a breeze. Seven basic ranges from 0—10' down to 600'. Shift control infinitely multiplies number of ranges available and extends sounding capability to 1,200'. "Zoom" scale expansion. Automatic range control, digital readouts of depth and surface water temperature. Temperature graph. VRM for digital readout of target depths and diameter of search area. All this and more at a very nice price. For more information, write for new video sounder brochure. SI-TEX, P.O. Box 6700, Clearwater, FL 33518.

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performance from their fishing line. TriMax is available in 4-20 lb. tests, in ultra clear (transparent) color in two size spools: a reel fill dispenser pak (275 yds) and a utility spool containing 2,000 yds.

TriMax is expected to be in full distribution by early fall, at outlets currently carrying Berkley Trilene. It will retail at approximately $12.95.

WHIZKER LEADHEADS, FLOATERS AND HOOKS

The Whizker series of leadheads, floater heads and hooks feature a Whizker finish that provides a no chip, bleeding or peeling surface of absorbent hairs to hold the EssencE of Nature and provide time release disperson of the scent cast after cast.

Whizker leadheads are available in 4 sizes and 6 colors and the floaters in 2 sizes and 6 colors.

The Whizkers worm hooks are Eagle Claw 95JB or 95XBL with Whizker finish on the shank. The Whizkers help retain the worm, as well as hold EssencE of Nature. Available in 4 sizes and colors, together with matching Whizker worm weights.

The Whizk-N-Hooks are Eagle Claw with Whizker finish for live bait retention, as well as EssencE of Nature.

Whizker treble hooks are great for replacing hooks on crank baits and spoons, as well as catfishing with EssencE of Nature.

For more information, write: Whizkers Fishing System, P.O. Box 837, Minden, LA 71055.

27 PHOENIX WITH VOLVO DIESELS SIZZLES

Since the company introduced its first boat in 1976, Phoenix boats have been synonymous with outstanding diesel performance. Now, using Volvo's new TAMD 41 series diesels, Phoenix engineers have brought a fresh dimension to diesel performance in the Phoenix 27 for 1987. With a top speed of 38 mph, the Volvo powered Phoenix 27 represents a reasonably priced sport cruiser ideally suited to the offshore sport fisherman.

The Phoenix 27 is designed for the fisherman who prefers a specious, stable fishing platform combined with practical interior accommodations and fuel efficient performance. A tackle storage and bait prep center with freshwater spigot and top loading ice chest are included in the cockpit that boasts over 100 square feet of unobstructed working space. New hull graphics and upholstery distinguish this popular Phoenix model for 1987.

With one of the broadest selections of power options in the industry, the Phoenix 27 is the choice of anglers worldwide. Twin outboards, twin SeaDrives, twin inboard gasoline, single inboard diesel and the new twin inboard Volvo TAMD 41 diesels provide the 27' sportfisherman with the blue water performance to satisfy the most demanding fishing situation.

The roomy forward cabin features a

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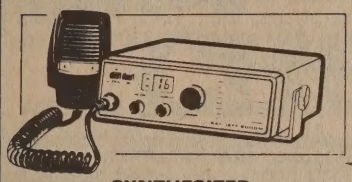

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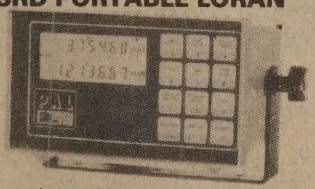

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3/8 x 100 Anchor Line	$28.95	$14.95

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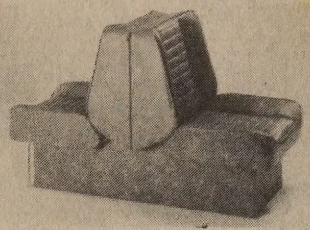

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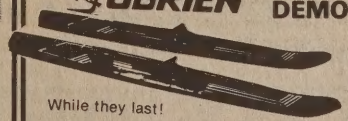

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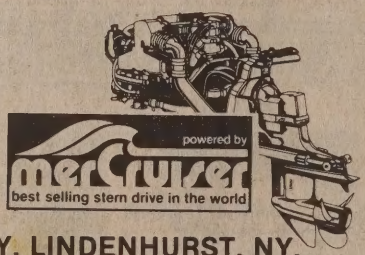

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vanity with sink and fresh water faucet, mirrored forward bulkhead, sliding doors and pressure water system including shower. All fiberglass components of the Phoenix 27 are hand laminated and the boat features a one piece, molded fiberglass innerliner, bonded to the hull with a specially formulated fiberglass compound, mat, woven roving and stainless steel fastenings.

For more information about the Volvo powered Phoenix 27 or any of the exciting new Phoenix models for 1987, contact your nearest Phoenix dealer or write to Phoenix Marine Enterprises, Inc., 1775 W. Okeechobee Road, Hialeah, FL 33010 or telephone (305) 887-5625.

HUMMINBIRD' LCR 3004

At last, a depth sounder for both boaters and fishermen. The all-new LCR 3004 is equipped with Humminbird's most popular LCR features. Boaters will appreciate the digital depth readout, bottom alarm and actual contour, all displayed on a high resolution LCD screen that 's easy to read any time of the day.

The LCR 3004 finds fish, too, clearly displaying fish and bottom structure. There's even a fish alarm that signals the presence of fish under the boat. The LCR 3004 is easy to use and understand. In fact, with its totally automatic operation, you can just turn it on and never have to make an adjustment all day!

The LCR 3004 is perfect for the first time buyer and with a 120 ft. depth range, it's ideal for use on practically any lake or river. Whether for cruising or fishing, your boat needs an LCR 3004: Humminbird's new depth sounder for both the boater and fisherman!

Completely waterproof for protection against rain, spray or saltwater corrosion. Four depth ranges, 0-15-, 0-30', 0-60', 0-120', controlled automatically by microcomputer, or manually with range control button.

Digital depth read-out displays bottom depth on screen.

Fish alarm sounds only for fish; adjustable bottom alarm sounds only when bottom depth reaches setting.

Sensitivity controlled automatically by microcomputer, or manually with control buton.

STC (sensitivity time control) automatically eliminates surface clutter by reducing sensitivity level for first signal returns, then increasing it for later signal returns.

Automatic digital noise rejection filters out electrical interference from other equipment on the boat without eliminating or reducing signals from bottom, structure or fish.

LCD screen gives clear, precise, detailed reading of targets, bait fish and structure, even in bright sunlight.

Stop action allows user to freeze the display and study it; variable sweep speed with 8 settings; high speed transducer for accurate readings at over 75 MPH; 3-inch target separation; swivel mount for easy

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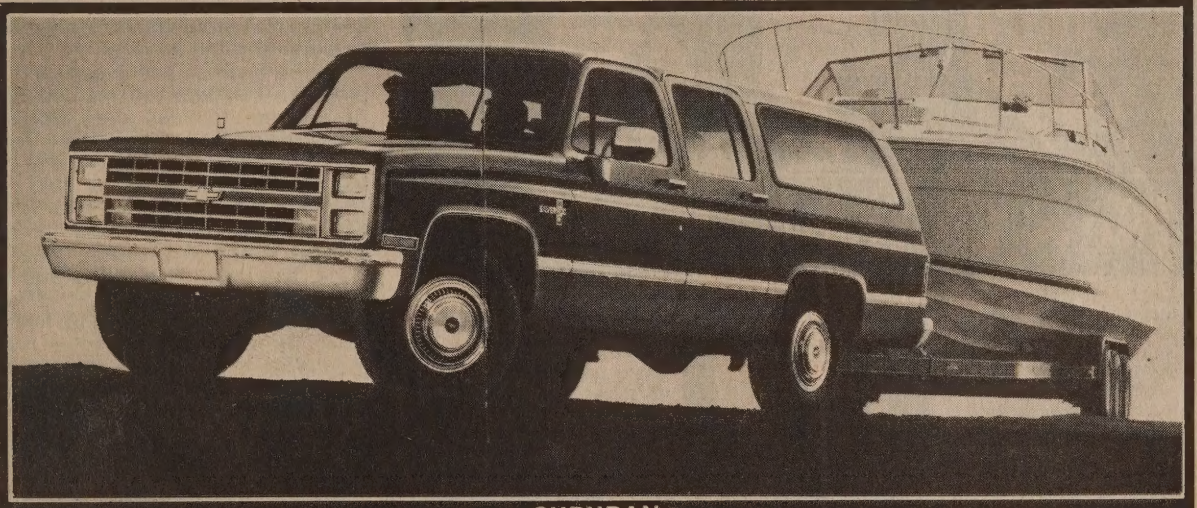

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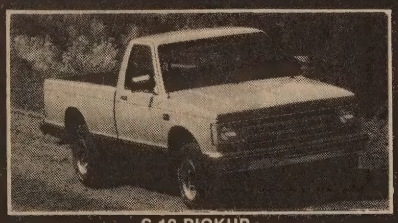

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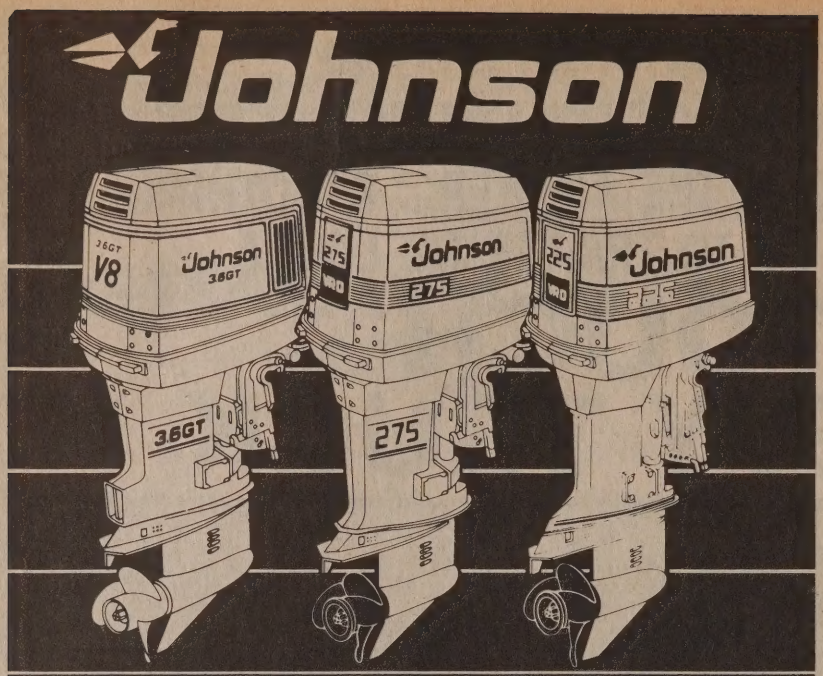

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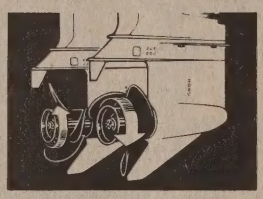

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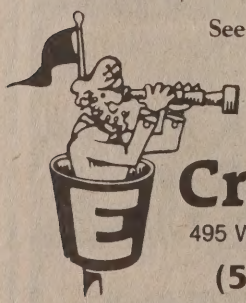

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Lifetime guaranteed service policy with 3-day turnaround and one year full warranty.

NEW 4 INCH THRU-HULL EXHAUST FITTING

Vernay Products, Inc. is now offering a robust new 4 inch thru-hull exhaust fitting. The development of this new larger size is in response to popular demand for larger diameter fittings.

The 4 inch model has the traditional advantages and sturdy construction of the smaller Vernay models. The fitting is made with a rubber flap that prohibits the reverse flow of water into the exhaust.

The 4 inch unit is made of high pressure compression molded FRP, rubber and stainless steel. Not only are these materials completely resistant to corrosion from sea water and the elements, but they are also considerably less expensive and lighter weight than conventional bronze, chrome plated or stainless steel fittings. The result is a fitting that will last longer, wear better and cost less.

The demand for larger thru-hull exhaust fittings is increasing as major marine inboard engine manufacturers continue to increase their manifold outlet diameters. Vernay will continue to respond by developing larger diameter fittings as the market demands.

From Vernay Products, Inc., P.O. Box 129, Xenia, OH 45385.

DONZI CENTER CONSOLE, OUTBOARD-POWERED FISHING BOATS

Serious sportfishermen who want to arrive at their favorite angling spots in style (and ahead of the competition) will now most assuredly do it, because Donzi Marine is introducing new speedboats designed totally for sport fishing.

The new boats are based on the designs of Donzi Z Series speedboats, but will feature outboard power and center console control, according to Donzi Chairman and CEO Richard E. Genth. Named the ZF-23 and ZF-33 Vest Pocket Fisherman, the hulls are slightly larger than the Z-21 and Z-33 speedboat models. The inner facilities have been set up specifically for sport fishing, without sacrificing the customary Donzi opulence.

All cabin appointments and vital "ship's systems" will remain first-class, but more important, the way the boat is arranged for sport fishing is first-class as well—unlike some speedboats that have been converted into sport fishing rigs.

The ZF-33 Vest Pocket Fisherman has an overall length of 33' 1", a beam of 9' and the draft to keel is 18". That's 9 inches longer and 2 inches wider than the Z-33 speedboat and the

ZF-33 can sleep three, while the speedboat only accommodates two.

Average freeboard from the water line is 34 inches and the cockpit is 28 inches deep. The ZF-33 weighs approximately 4200 pounds, has a fuel capacity of 270 gallons and holds up to 25 gallons of fresh water.

A 45-gallon live well, a full walk-around deck, raw water washdown and a self-draining cockpit with large scuppers make the ZF-33 as much a sport fishing machine as it is a speedboat.

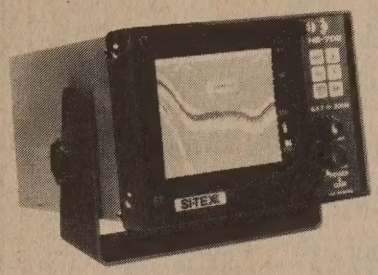
The large forward cabin has a "V" berth, a quarter berth, galley, head and cabin side rod storage.

Some of the other standard features on the ZF-33 are: above floor battery storage, "Donzi Bracket" transom treatment, all stainless steel hardward, above floor oil tank location, easy access to battery switches, fuel filters, trim pump and steering reservoir, built-in fire extinguisher compartment and quick connect fuel fittings.

The ZF-23 has an overall length of 22' 11", a beam of 8' 6" and the draft to keel is 18 inches. Average freeboard from the water line is 28", and the cockpit freeboard is 26". Gross weight is approximately 2,700 pounds.

All the hardware is stainless steel and the cockpit is extra wide. Some other standard features are the bow pulpit, large capacity fish boxes forward, a 30 gallon live well, a 100 gallon fuel tank and full size rod racks.

For more information, contact Donzi, 7000 Bradenton Road, Box 987, Tallevast, FL 34270-0987, (813) 355-9355.



SI-TEX HE-702 COMPACT COLOR VIDEO SOUNDER

When it comes to size, the compact HE-702 color video sounder takes only a little more space in a boat than a typical chart recorder. But the HE-702 tells much more about the underwater environment.

It starts with a bright, colorful, meaningful display that beats conventional chart recorders and black and white video sounders in every way. The HE-702s six inch (diagonal) picture displays the bottom contour, structure, fish, weeds, even thermoclines in seven distinct, dramatic colors.

The HE-702 digitally displays bottom depth and water surface temperature. There's also a temperature graph. Plus seven depth ranges from 0-10 feet down to 0-600 feet with shift capability to 1200 feet.

In addition, there are four separate picture speeds and automatically controlled sounding rates and pulse lengths. Clean Echo blocks out interference from other sounders operating nearby.

For further information, write Si-Tex, P.O. Box 6700, Clearwater, FL 33518.

BOAT TRANSPORT FOR 20 TO 23 FOOT BOATS

Transporting a boat to and from the water and getting a boat in and out of the water at the launching ramp safely and quickly are major concerns for owners.

With the LER-2023-5300 boat trailer from Calkins, worries and hassles can be comfortably left behind. Specially constructed to carry boats 20 to 23 feet in length, the trailer measures 80" between fenders and 96" between the outside fenders.

Calkins self-adjusting cradle system, including adjustable rear centering rollers, dual adjustable chine rollers and adjusting keel rollers, automatically adjusts for weight variations due to changes in gasoline carried, gear load, etc. The boat is safely "cradled" during transport. The large capture area makes launching and retrieval quick

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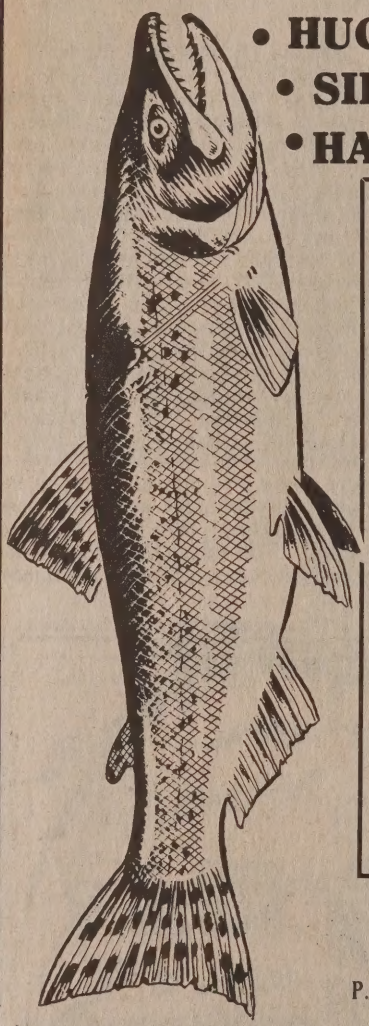

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Standard features include winch and cable, safety chains and hooks, waterproof taillights, adjustable running gear, bearing protectors, drop axle and step pads. Options include choice of brakes, spare tire carrier and galvanizing.

From Calkins Manufacturing Co., P.O. Box 14527, Spokane, WA 99214.

NEW DOCK AND ANCHOR LINE

Increased protection for boats from 16 feet to 60 feet is now available with two new types of high strength dock and anchor lines from Samson Ocean Systems.

Samson Multi-Strand Dock and Anchor Lines use the new Allied Caprolan 2000 SeaGard Nylon and an interlocked construction to provide 15 percent higher wet strength than 3-strand. Samson Poli-Strand floating lines use a new Pro-Gard 1000 copolymer and the interlocked construction which is 10 percent stronger than 3-strand poly-pro. Dock lines have prespliced eyes and are boxed with Selection Guides. Anchor lines come in reusable plastic pails and have eyes with captive thimbles.

Descriptive literature and pricing are available from Samson/RM, P.O. Box 638, Shirley, MA 01464; 1-800-227-7673 (MA: 617-425-9511).

NORTHCOAST 24 FOOT TWIN OUTBOARD

NorthCoast Boat Works has introduced a twin outboard, 24 foot boat that handles deep water as if it were a much larger boat. The NorthCoast 24, which is trailerable and can be operated single-handedly, is aimed primarily at fishermen who are being forced to travel farther out to sea in search of fish.

The NorthCoast 24 is designed to handle deep water and rough seas. The boat features a 9 foot beam to provide generous interior space and stability. The deeply V-ed hull, designed by noted naval architect C.J. Jannace, offers a 54 degree deadrise forward, gradually tapering to 23.5 degrees at the transom. The boat provides 49 inches of freeboard forward and 31 inches of freeboard at the transom, 10 inches more than other boats in its class. "Even small boat nuts are impressed with this boat's design," says Kim Bradley, NorthCoast president.

Heavy duty construction is featured throughout the boat. The NorthCoast 24 is built of hand laid fiberglass with 18 layers of lamination at the bottom. The boat employs the superior three-piece construction method that includes a full fiberglass inner liner to increase strength. The inner liner also improves cockpit space and provides more secure footing while gaffing a fish. Three-piece construction adds about 15 percent to the cost of the boat when compared with the more common two-piece boats. "When you're out in open water 80 miles offshore, you'd have to be crazy or foolish to settle for

the cheaper method under those circumstances," says Mr. Bradley.

The first NorthCoast 2 was delivered in December, 1986 and the three month old company expects to deliver 90 boats by the end of 1987. The company also will offer a 24 foot twin inboard early in 1987 and a 30 foot twin inboard later in the year.

The NorthCoast 24 sells for about $50,000, about 40 percent less than the larger boats generally required for ocean fishing far offshore. The NorthCoast 24 is also much more economical to operate than the larger boats. The NorthCoast 24 typically uses 50 percent less fuel per hour while traveling 25 percent farther each hour.

DESIGNER FISH TIES

Sports Ties Unlimited introduces its very unique line of Designer Fish Ties.

Designer Fish Ties are this year's hottest craze in novelty neckwear. It makes a perfect gift for the fisherman. Designer Fish Ties are offered in four distinct styles: Designer Salmon, Bass, Trout and Marlin (left to right in the photo). Manufactured to high standards of quality, these 100 percent polyester ties bring the fun back to men's neckwear! They are selling by the thousands throughout the United States. Fish ties are being sold through aquariums, sporting goods stores, fishing tackle shops, novelty shops—and even hospital gift shops!

For more information, contact: Harry Comerchero, Marketing Manager, P.O. Box 9269, Mesa, AZ 85204; (602) 838-4226.

DAIWA'S ACCU-SET REELS ELIMINATE DRAG SETTING GUESSWORK

The new Accu-set spinning reels from Daiwa are designed to help Northeastern anglers land more fish by taking the guesswork out of drag setting, a common problem.

Accu-set is a miniature spring scale built right into the reel's spool, that lets anglers take full advantage of their line's breaking strength, without fear of break-offs. The result is fewer lost fish.

A quick check with Accu-set tells an angler when his drag is properly set for the line test he is using. He can choose a normal setting that's perfect for most fishing situations, or fine tune the setting for special fishing conditions and fish species. A heavier setting gives maximum stopping power to control fish in heavy cover. The light setting handles fast moving, open water fish or delicate mouthed fish.

Accu-set is featured on Daiwa's Accu-set Tournament and Strike Gold Series spinning reels. The special Tournament Series features an oversized, micro-adjustable drag and three ball bearings.

Other features of the new Accu-set reels include:

- A Lifetime bail spring, that lasts up to five times as long as an ordinary bail spring.
- Autocast for easy, one-handed casting.
- Major body components of strong graphite—to provide a lighter weight and better feel.
- A silent anti-reverse mechanism that means quiet retrieves.

For more information, write Dept. 62, Daiwa Corporation, 7421 Chapman Avenue, Garden Grove, CA 92641.

CONNECTING ROD FOR OMC COBRA ENGINES

E.Z. Steer, Inc., the company that introduced the patented self-adjusting connecting rod that allows boaters to steer any outboard auxiliary up to 25 hp from the center cockpit steering wheel, has announced development of a new unit for sterndrive OMC Cobra engines.

The patented, self-adjusting rod developed by E.Z. Steer connects outboards and outdrives, even rudder to engine so that either engine can be tilted and full steering capability maintained. No need to disconnect the auxiliary engine for your main power run. The rod adjusts itself when more than 15 pounds of pressure is exerted against the left or right turn stops of the auxiliary. The sliding tube has a series of holding grooves to retain the adjusted length after the pressure is removed. This allows for tilt out positions on a solid transom or

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swim platform.

The Cobra connection comes with a 14 gauge, plastic coated stainless steel plate that bolts to the top of the engine. Four stainless steel nuts are included with the unit and replace four engine bolts. A wrench and/or screwdriver are the only tools needed to install E.Z. Steer units. There are no holes to drill except in the rudder of a sail boat installation.

E.Z. Steer units come ready to install, in 3 standard lengths, ranging from 17 inches to 50 inches, designed to fit all outdrives and outboards, but can also be special ordered to fit your desired length requirements. The units are packaged with all the mounting hardware needed for installation. Brackets and plates are stainless steel, dipped in black plastic to prevent scratching the engine. All other parts are stainless steel and brass, with Delron plastic ball joints for corrosion resistance.

For further information, call or write E.Z. Steer, Inc., 2243 E. Highland Drive, Camano Island, WA 98292; (206) 387-7105.

NEW COUNTER-ROTATED V6s HIGHLIGHT EVINRUDE LINE-UP

The popular loop-charged Evinrude XP 200 and 225 hp V6 models use the same technology as found in the innovative V8. The 225, in both 20 and 25 inch shafts, is available in counter-rotated models. The standard rotation models will be available in both power steering and standard steered models. The counter-rotated engines are available in standard steered models only.

In twin installation of both a standard model with power steering and a counter-rotated model the result is a torque neutralizing installation. A single engine with power steering gives stable, steady running with effortless, responsive steering for low speed maneuverability.

An even firing six pin crankshaft provides smooth idling on the loop-charged V6 models. A 35 amp alternator, which allows for the use of more electrical equipment at idle or low cruising speeds, is standard.

The high performance 175 hp introduced in 1986 returns for '87. The 160 cubic inch block coupled with last year's redesigned intake and exhaust ports, provides excellent out-of-the-hole and top-end performance.

Rounding out the V6 line-up are the popular performers from the past. The standard 150 and wthe XP 150 return for 1987. For improved electrical capacity, Evinrude returns with a 35 amp alternator on all V6 models except the standard 150 which features a 3/9 (3 amps at idle and 9 amps at W.O.T.) alternator.

The XP 150 uses a special combustion chamber to maintain performance with unleaded fuel. Performance is further enhanced through use of air intake louvers on the forward size of the XP motor cover.

A second anode has been added to the stern brackets for improved corro-

sion protection. The 175 and 150 hp V6s have temperature and pressure controlled cooling for faster warm-up and cooler running at high speeds. The V6 loop-charged models incorporated Power Boost Cooling, an OMC patented system which provides thermostat and throttle controlled cooling for faster acceleration and smoother operation.

CORRECT CRAFT IMPROVES FISH NAUTIQUE DECK DESIGN

The 1987 Fish Nautique is an offshore dream, designed to quest the open waters. This 23 foot center console craft sports an all new deck for 1987, increasing deck space 17 square feet and creating more room in the transom area.

A vast array of features enhance the boat's appeal: an inner liner with three lockable storage bins, an oversized catch well with optional live well, console storage and a lockable teak radio box built in the center console.

Engineered to perform optimally in rough waters, the Fish Nautique gives a strong performance at any speed. The front chine area of the hull was developed to provide the dryest possible ride.

Whether it be a day of sport fishing for serious anglers or a cruise upon the ocean waves with friends, the Fish Nautique is tried and true.

For more information, contact Sue McMurray, Correct Craft, Inc., P.O. Box 593389, Orlando, FL 32859-3389, (305) 855-4141.

MICRONAR MAKES COLORFUL BREAKTHROUGH IN LCD DEPTH SOUNDERS

Moving the LCD revolution into the next generation, Micronar introduces the M-450 Color LCD Depth Sounder. It electronically discriminates strength of returning echoes to display four different and distinct colors. For daytime use, strong echoes from the bottom are displayed in black, large fish or a school of fish would be red. Green displays indicate baitfish, weeds, thermoclines, etc. The background color is yellow. Colors can be altered for night use.

A keypad puts the control of all operating functions at your fingertips. There's simple touch key selection of eleven depth ranges to 320 feet. First range is 0-10 feet for improved shallow water performance. Digital readouts display range selected and actual depth of the bottom.

"Zoom" mode provides a twice-up expansion of the upper third, middle third or bottom third of any selected range. Typically, on the 0-30 foot range, you could select a twice-up view of the 0-10, 10-20 or 20-30 foot area along with a digital readout of the expanded range selected.

A touch of the "menu" key calls up a number of full screen menus that take you step-by-step through additional operating functions like Automatic Range Control to find and keep the bottom contour in full view on the

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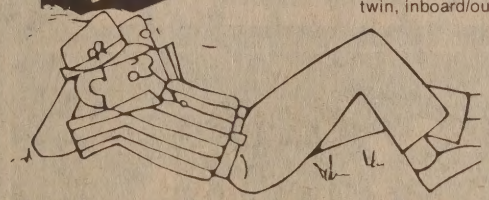

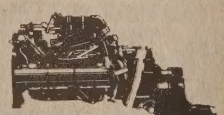

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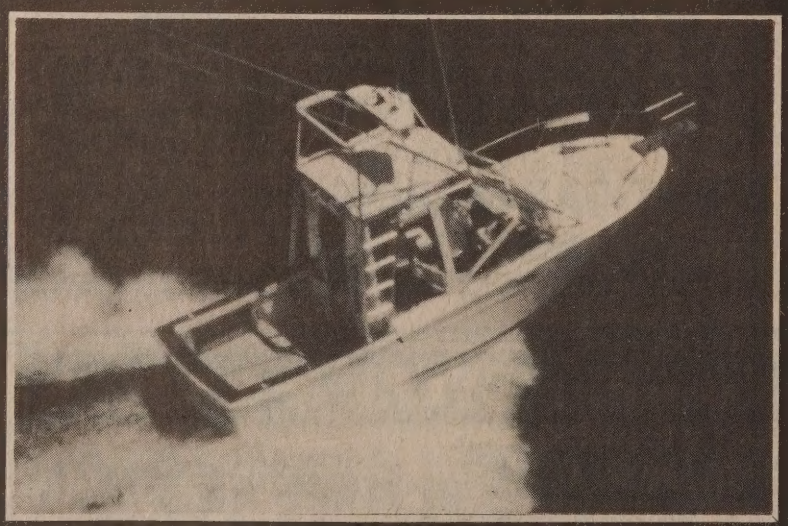

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New Jersey 08742
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HARWICH PORT BOAT WORKS
30 Harbor Road,
Harwich Port,
Massachusetts 07646
617-432-1322

MULLICA RIVER BOAT BASIN
Rt. 542, Greenbank,
New Jersey 08215
609-965-2120

screen at all times, Automatic Gain Control to adjust receiver sensitivity to the proper level for the range you're on and five step Sweep Speed Control for horizontal picture speed. Plus shallow water (depth) and fish (zone) alarm controls that can be set in one foot increments.

Other features of the Micronar M-450 include automatic Clean Echo Circuitry to eliminate interference from other sounders operating nearby, an output for a digital remote and a matching 200 kHz high speed transom mounted transducer.

For more information, write Micronar, P.O. Box 6775, Clearwater, FL 33518; (813) 535-4681.

SCARAB SUPER SPORT FISHING MACHINE

For the serious fisherman and performance enthusiast, Wellcraft has introduced a state-of-the-art center console Scarab Super Sport. Built on the proven hull of the Scarab III, the Super Sport is designed to deliver Scarab performance while providing maximum fishability.

The Super Sport measures 33' 10" in length, and features hi-tech, streamlined styling throughout. And, with features such as a self-bailing cockpit and extensive use of fiberglass in place of teak, the boat is desined for miminum maintenance.

The foredeck of the Super Sport is sculptured for styling, offering stainless steel rails, cleats and chocks, non-skid footing and a flush hatch. A unique, lockable fiberglass anchor locker can be accessed from the deck and features a molded inset for hanging the anchor upright and a hidden chain/line encasement.

Screened, teak louvered doors open to the forward V-berth, which sleeps two in comfort. The cabin features two lighted storage compartments and cabin lighting. Room for Porta-Potti has also been provided for.

The cockpit is encircled by coaming pads and welded, stainless steel rails. Abundant storage, most of which is lockable, can be found throughout the cockpit, including an 80 gallon fish box forward, lockable boxes in the coamings, hidden storage under both the forward port and starboard seats and two large transom boxes. There is also additional storage behind the console under the floor which can be replaced with a large live well.

The Super Sport features an enormous amount of uncluttered fishing area for fighting fish all around the boat with additional fishing conveniences such as teak rod racks in the coamings and rod holders. Padded, vinyl coaming graphics add just the right touch of color and design.

The console is sculptured for an aerodynamic look and is accented by a curved tinted windshield, sturdy stainless steel grab rails and an etched, smoke plex logo on the side. On the instrument panel, gauges are efficiently designed for easy reading,

with pushbutton switches at close reach. Lockable storage compartments have been provided for a six drawer tackle box, stereo and other electronics. Two pedestal seats come standard, however, the owner can opt for a leaning post/bench seat with four stainless steel rod holders. A large 19 gallon cooler/seat forward of the console and an aft bench seat with plenty of storage underneath can provide additional seating.

Options include a bimini top with boot, fresh or raw water washdown and a wide selection of twin or triple Sea Drive or Gil Bracket outboard choices. Easy access battery switches which are designed into the transom and covered with a hinged pad, can also be ordered as an option.

The new Super Sport joins Wellcraft's list of over 50 fishing boats, sport boats, performance boats and cruisers. Wellcraft is a Minstar company.

FURUNO'S FCV-66

Furuno introduces the FCV-66 microprocessor controlled color video sounder with features perfect for any fishing. It is packaged in a rugged cabinet that measures just 7.6"H x 9.5"W x 14.2"D—including mounting bracket and sun shade—and still provides a high brightness 6" CRT with fish targets and bottom echoes shown in 8 brilliant colors. Precise sounding to as much as 2000 feet is achieved with 7 basic and 7 phased ranges, with a first range of just 0-15 feet.

In addition to the spectacular color picture, the CRT also shows 9 different alpha-numeric and symbol readouts to give the operator complete system status at a glance. The 8 color presentation makes fish finding easy, because the strongest echoes (largest or closest fish) show up in brilliant red, with weaker returns appearing in orange, yellow, etc. Fish are also easily seen against bottom contours.

From knowledge gained in Furuno's 40 years experience building commercial fish finding gear, the FCV-66 is packed with other convenience features. A built-in depth alarm or echowatch alerts the user to changes in underwater conditions, and the optimum pulse length and sounding rate are automatically selected for a superb picture at any depth range chosen. All basic and phased range scales, upper and lower depth alarms, display advance rate, and noise limiter function are controlled via a sealed membrane keypad.

The built-in transceiver contains the powerful 800 W (peak to peak) transmitter and a variety of transducers are available to meet different fishing and vessel requirements. The FCV-66 has a universal 11-40 VDC power supply and requires only 30 W.

To make your fishing day really colorful, see the FCV-66 at outlets all over the U.S. and a 1987 full line product catalog is available.

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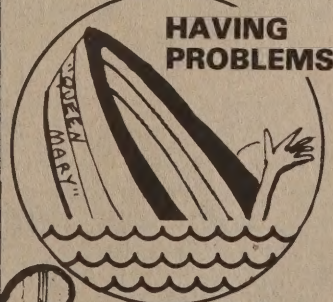

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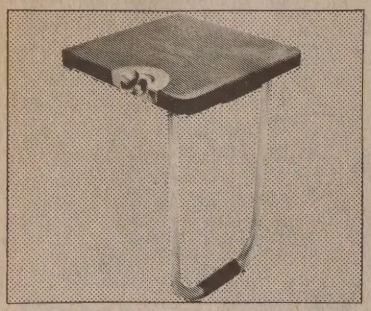

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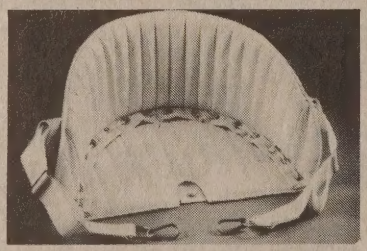

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Boats For Anglers

ROBALO 2660 CUDDY CABIN

by John Raguso

One of the interesting things about arranging for a sea trial in early December is that you can never tell what the weather will be like come test day. When I scheduled a Robalo 2660 demo ride with Ben Pulvidente of Amity Harbor Marine around Thanksgiving time, neither of us could have predicted the forecast that Mother Nature had in store for the test run.

The Robalo 2660 comes in two layouts, with one being the conventional outboard design and the other a full transom, dual bracket-drive setup. Our craft was an older 1986 model powered by dual 200 hp loop-charged Mercury V6 outboards. As we snaked south along the Amityville canal leading to Great South Bay, Terry Pulvidente decribed some of the modifications undergone by the '87 version of the 2660. The most obvious change was to the helm area by the dash panel, which has been made flush for easier visibility and ergonomic efficiency. The new layout incorporates a deep recessed electronics locker to starboard, capable of storing both a Loran C *and* a computer graph recorder out of the weather. To port, is a panel that will house a pair of large 3" tachs, plus a full complement of up to 8 additional supporting 2" gauges. Some of the other major improvements for the current model year include: fiberglass covering boards atop each gunwale aft, replacing the former high-maintenance teak boards; Teleflex Sea Star hydraulic steering; a 200 gal. fuel cell replacing the older 192 gal. unit; an increase in the freshwater capacity from 15 to 25 gal.; revamped stern fishboxes which are flush with the aft covering boards and are removable to access the battery/oil bottle storage area; and a built-in fiberglass footrest under the s/s steering wheel for operator comfort.

As the Robalo nosed into the hostile elements of the open bay, it began to rain, further decreasing our limited visibility. The southeast winds blowing at a steady 25 to 30 knots had whipped the shallow waters into a washboard of tight 3 to 4 footers, spaced 15 feet apart.

Turning the 2660 into the teeth of the gale, I pinned the throttled and held on for dear life. There's nothing

quite like feeling the sensational roar of the twin V6 Merc bellowing out at 5,700 RPM. The hull sprinted across the wave tops and the deep forefoot with its sharp entry cut through the building headseas like a cleaver, approaching 45 knots into a freshening SE breeze. The insulation and stiffness provided by the Robalo's full foam flotation made the ride seem like a Sunday stroll to the beach and the hull didn't pound any more than a 29' Topaz or Aquasport would have under similar conditions. The hulls's strakes and flare rate directed the spray away from the helm very nicely, both in the turns and on straightaway runs.

Back at dockside, Ben was relieved that we had made it back without incident. We discussed some of the standard features that come with the 2660, and they include: 100 percent hand laid hull and deck; level foam flotation; fiberglass bow pulpit; welded s/s bow rail; 23 gal. aerated livewell aft; cabin galley with ice box, alcohol stove and s/s sink; 200 gal. fuel cell; 25 gal. freshwater tank. According to Robalo, the hull lay-up is 8 layers of alternating mat and woven roving, an industry standard also employed by Mako, Grady White, Sea Craft and a few other top-notch builders. This boat's ever-popular 8½ foot beam provides extra cockpit and cabin room, in addition to being legally trailerable in 38 states.

The only thing I didn't like about this rig was the standard seating arrangement. There was a lot of dead space under the twin helm chairs that could have been put to better use, and many competitive manufacturers are beginning to see the light by building in fishboxes, tackle drawers, etc., in this formerly unutilized area.

In summary, the Robalo 2660 is a fine example of what a trailerable 26 footer should be like. Although my initial reaction was skeptical, since the less quality-conscious Cobia folks bought the Robalo marque from AMF a few years back, these fears were unfounded. The fit and finish detailing was up to the classic Robalo standards. This machine isn't cheap, but sometimes it's worth it to pay a few extra bucks for a strong rig that will hold its value over time. So if you're in the market for a canyon runner that's got the speed and range to get you out and back, plus provides some of the accoutrements that make a trip to the beach with the wife and kids a pleasure cruise, give the Robalo 2660 a serious look.

* * *

SPECIFICATIONS

Length	26'
Beam	8'6"
Transom Deadrise	23 degrees
Weight	4,700 pounds
Fuel Capacity	200 gallons
Maximum Horsepower	400

Manufactured by: Robalo, a product of Cobia Boat Co., P.O. Box 1857, Sanford, FL 32772; (305) 322-3540.

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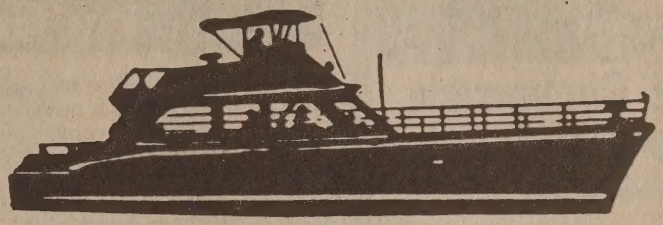

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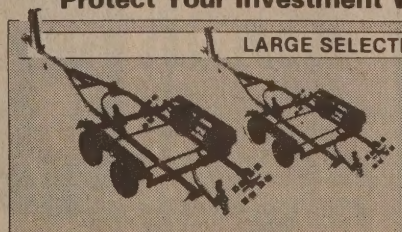

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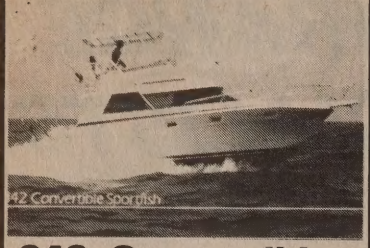
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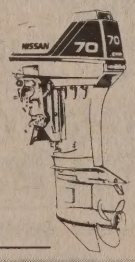

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Product Review

APELCO DXL 6000 LORAN

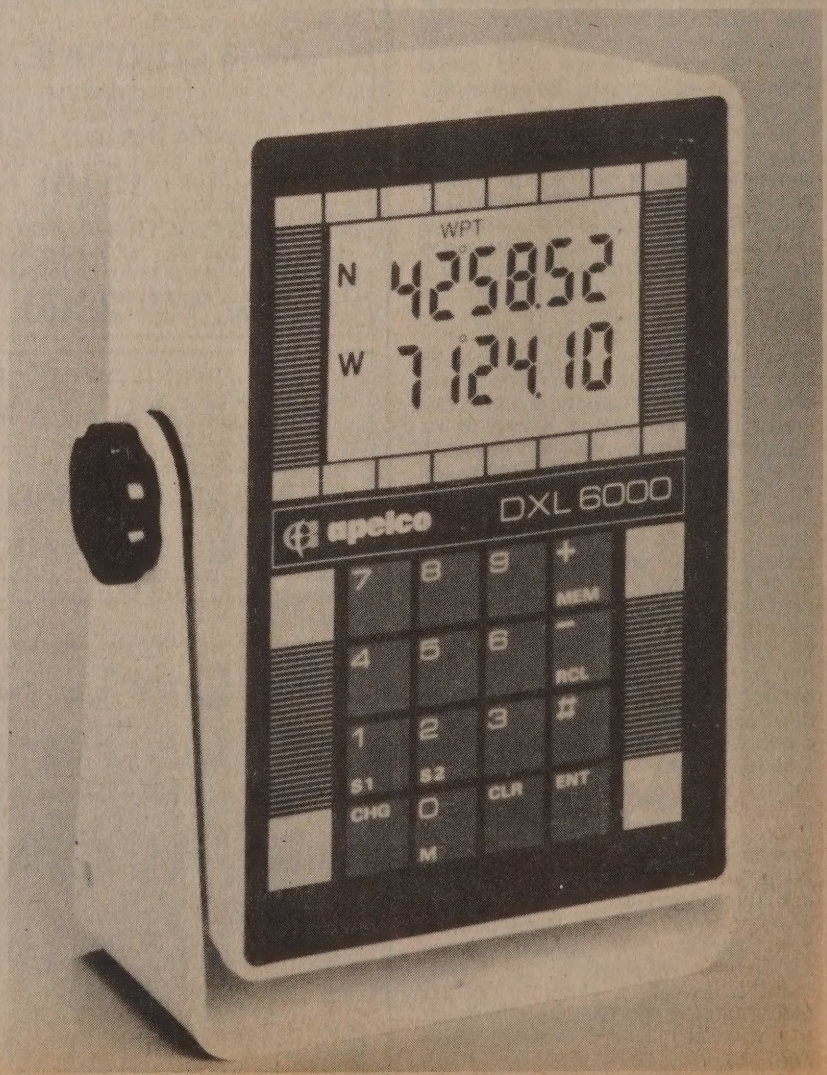
by Eric Burnley

Two factors have made Loran desirable for the small boat owner: ease of operation and reasonable price. The Apelco DXL 6000 is an industry leader in both of these categories.

When I began to shop for a Loran I looked at many units. I had field tested one of the more expensive Lorans on my boat so I knew which features were important and the type of unit I required.

The Apelco DXL 6000 is a vertical mounted Loran which allowed it to fit on my dashboard with ease. It has a large display with big, easy to read numbers, good for us older folks with failing eyesight. The case is water resistant which is very important on a small boat. And perhaps the most critical consideration, the price was under $600.

Installing the DXL 6000 was easy. I simply located the best position on my dash, drilled two holes for the frame and bolted it on. The power wire was run aft to the battery where it is tied directly to the posts. The antenna lead is quite short, running only four feet from the port side directly in line with the dash. The ground wire is run



back to an engine mount.

Once everything is hooked up it is time to turn the set on and start playing with it. You receive two sets of instructions with the Apelco DXL 6000: one is a book and the other is on waterproof cards. In the beginning it's a good idea to use the book, but keep the cards on the boat for reference at sea.

The first time you turn the DXL 6000 on you should enter your approximate position and the GRI (Group Rate Interval). Once this is done you don't have to do it again unless you trailer the boat to Florida or California.

The Apelco 6000 DXL has all the features anyone could want in a Loran. You get a continuing readout of your current position, speed over ground, heading, cross track error, time to go, magnetic compass correction, waypoint sequencing, arrival alarm, clock, cross track error alarm and signal to noise ratio.

Entering waypoints is probably the most often used operation of any Loran unit and putting the numbers in the Apelco 6000 DXL is quite simple. The 6000 DXL does not store TDs; it only stores latitude/longitude. This does not mean you have to compute lat/lon yourself, but you must give the unit time to do it for you.

When you want to put TDs into a waypoint you enter them with the unit set to CC (off-line Coordinate Conversion). Enter the two TDs and the DXL 6000 automatically converts them to lat/lon. This takes a second or two but you know the conversion is complete when the decimal points stop flashing. Next select the waypoint number you want to store your TDs in and enter this. It's as simple as that.

There are two physical features of the Apelco DXL 6000 that I found particularly important. The first is the very large keypads which are easy to touch when the boat is bouncing around while under way. They are also easy to read and the backlight makes them stand out on those predawn mornings when you are heading offshore.

The other feature is the high degree of water resistance built into the DXL 6000. It is not waterproof and should be protected as much as possible, but the rubber gaskets sealing all the seams will keep spray out of the innards. I have taken a few seas over the windshield and was caught in a heavy thunderstorm, but the Apelco came through all those experiences damp, but unharmed.

If you are looking for a Loran that has all the features a fisherman needs with a price most of us can afford, I suggest you consider the Apelco DXL 6000. It has done everything I asked of it and I expect it will continue to serve me for many seasons to come.

* * *

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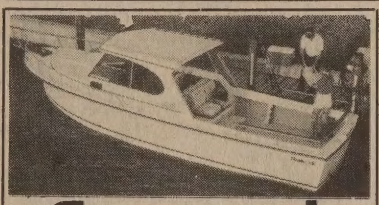

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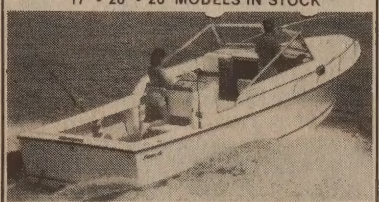

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The Tackle Doctor

by Russ Wilson

Dear Doc,

I am 13 years old and a subscriber to The Fisherman. Since I began subscribing to The Fisherman, my fishing has improved a great deal.

I am now interested in starting to make my own custom rods. Could you please give me some names of books on rod building and where I can purchase them? *Gary Hocker.*

Dear Gary,

There are lots of excellent books currently on the market that detail the how-to's of building custom rods from start to finish. I can't list them all, but can give you one that has met with widespread approval among serious custom rod builders.

One of the best is Dale Clemens' ***Fiberglass Rod Making****. You can purchase this excellent Stoeger Publications book through The Fisherman's Library c/o The Fisherman, P.O. Box 1994, Sag Harbor, NY 11963. It sells for $17.95 and is worth every cent.*

Clemens also wrote ***Advanced Custom Rod Building*** *(New Century Press) which goes into greater detail and is directed toward the custom rod builder who wants to learn the more sophisticated wraps and will be working with graphites, bamboo or S glass. This, too, is available through The Fisherman Library (Sag Harbor only) and has a price tag of $21.95.*

* * *

Dear Doc,

When the fall comes and the stripers are running, let me fall under the title of "Bass Fisherman." And, like all bass fishermen, I have my jetty bag of secrets. Anyway, my fishing buddy Alan, who works in a tackle store, and I were looking through some tackle catalogs and came across an Atom Reverse swimming plug; so I bought one and tried it out.

It is as lifeless as a needlefish lure, but it skims across the surface and fills up with a little water. Am I doing it right? Is there more to it? Should I pop it like a pencil popper? Help me out. *Joe Ward.*

Dear Joe,

The Reverse Atom was a hot item some years back. We caught a lot of linesiders with that particular plug during the 60s when it was a well kept secret among dedicated jetty jocks who fished the rocks at night.

We've always used the Reverse as a darter by lifting the rod to make the plug dart ahead and then dropping the tip to let it settle into the water before again lifting the rod to give the plug a lifelike action. It can be popped, used as a swimmer or worked as described.

Let the bass decide how they want their meal served. If you see them chasing mullet you should make the plug work like a mullet that is swimming for its life. The darting action is probably as good as any under this situation, and is probably better than most.

When bass are pounding into schools of bunker you might want to use the Reverse as a swimmer. It has the right size and even though it will not zig and zag like a wounded bunker or herring, it will still get results.

A very slow (that means almost a crawl) retrieve will often get the attention of a hungry striper when mullet are in the surf. That was the way we first used the Reverse Atom and it was ***deadly*** *on school size stripers. The lack of visual action did not have any effect on the lure's attraction to stripers and may have been what made it so effective.*

You are correct in saying the Reverse Atom does not look like much, but what is important is that it is a fish-catching lure.

* * *

Dear Doc,

I do a lot of bait fishing for fluke, bluefish, blackfish and weakfish. This involves cutting up everything from crabs to squid and my fillet knife is just not holding up. What type of knife do you recommend for this sort of work? *Bill Kitridge.*

Dear Bill,

I don't use a knife very often. Most of my baits are cut neatly with a sharp pair of scissors. I've had a pair of the Berkley scissors for several years and use them for cutting green crabs, squid, fluke belly and other strip baits.

When I need a chunk style bait I'll generally use a heavy bladed knife for cutting through the bones of the baitfish. There are knives made specifically for this purpose. The blade will dull, but a few swipes with a whetstone or sharpening steel will bring the edge back quickly.

Strip baits should be cut cleanly with no ragged edges to hinder their natural fluttering action. A dull knife only serves to butcher a strip bait while the scissors will cut it evenly and quickly so you don't lose too much time preparing baits.

Large baits such as a fillet of bluefish or mackerel for sharking must be

prepared with a knife. Last year we tried one of the G-96 heavy bladed fillet knives for this chore and found it held up under constant usage provided we touched the blade up with a whetstone after each trip. The same knife was also used for chopping bunker, mackerel, blues and butterfish into bite size tuna chunks and performed without a hitch.

You will need different knives for filleting fish. The heavy blade is not exactly suited to filleting flat-bodied fish such as fluke or flounder because it will not bend to follow the bone structure of the fish. It can be used when filleting weaks, blues, striped bass or most any round bodied fish.

* * *

Dear Doc,

When fishing for bluefish I always use a wire leader. Some of my friends use monofilament leaders and they claim they get more strikes. I fear the loss of tackle if the bluefish teeth touch the monofilament leader. Is using the mono leader really worth the risk of losing tackle? *Robert Jones.*

Dear Robert,

That's a loaded question. There are many situations when using a wire leader is a must. By the same token, many circumstances will dictate the use of a less visible monofilament leader.

When chumming and using natural bait, I would recommend a short trace of wire between the running line and the hook. Bluefish that are aggressively feeding in a chum slick will generally jump all over a drifting bait and will take the hook deep. In a situation such as this you are asking for problems when tying the hook direct to monofilament.

We do a lot of bucktailing for bluefish and will normally rig the lures behind a short trace (4 to 10 inch) of fine wire leader. The smaller lures are completely inhaled by greedy blues and once the lure is inside the mouth of the fish the slender monofilament line is vulnerable. A similar situation occurs when using small swimming type plugs, casting metals or when live lining and in situations such as these, we do recommend a wire leader or will rig the lure behind a short leader of nylon covered wire.

However, when diamond jigging, casting large plugs or metals to blues that are feeding on or near the surface, you really do not need a heavy wire leader to avoid bite-offs from hooked fish. You will lose some lures but, in our opinion, this is not due to a hooked bluefish biting through the line. As a rule a second blue will, in a feeding frenzy, try to steal the lure from the fish you've hooked and it is that bluefish which actually bites the line. A wire leader will not stop this from occurring, but may cut down on the number of strikes you'll receive from other blues.

It is advisable to rig your plugs, metals or diamond jigs with a short leader of heavy monofilament line.

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Dock Lines

by Eric Burnley

Dear Eric,

I recently purchased a Grumman 5.0 meter center console aluminum boat powered by a 70 hp Yamaha outboard. The outfit is new and has yet to go in the water. I plan to get involved in saltwater fishing in coastal bays, inlets and rivers. Since all of my experience to date has been on freshwater, I need some advice on the following.

Given that the boat will only be trailered, would you recommend that the bottom be painted with any antifouling material? The sides are painted but the bottom is raw aluminum.

The floor is carpet-covered plywood. There is an automatic bilge pump, but the only access to the under-floor area is a small 4" x 8" opening where the steering/wiring cables pass through. Would you suggest I build a reasonably sized access hatch into this area? *Jim Nulan.*

Dear Jim,

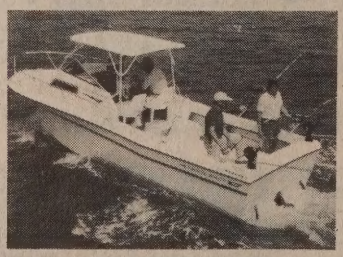
The Grumman 5.0 meter boat and 70 hp Yamaha motor are ideal for the type of fishing you want to do. This combination will work well in freshwater and salt, so you can enjoy many types of fishing.

If you plan to trailer the boat and never leave it in the water for more than a day or two at a time, there is no need to paint the bottom. You should wash the boat inside and out after every use. It would be a good idea to wax the boat top and bottom at least twice a year. The wax will help keep the boat clean by making it difficult for dirt to accumulate on the surface.

Feel free to make an access panel into the bilge so long as you know how to go about such a project. You may find the bilge to be almost totally filled with foam and cutting into this could reduce the flotation of your boat. I recommend you check with Grumman Boats, 7 South Street, P.O. Box 549, Marathon, NY 13803 or phone (607) 849-3211 before you begin to cut holes in your boat.

Modern outboard engines do not require flushing after each use in saltwater. In fact, you are probably running a greater risk of damage from overheating by using a flush cap than damage from corrosion if you just left

GRADY-WHITE



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the motor alone.

Do wash and rinse the entire boat and the outside of the motor after each use. I also remove the cover from the motor to check for any possible problems such as loose wires, leaking fuel lines or corroded terminals. Then I spray everything under there with a water displacing oil such as CRC, WD-40 or STP. Finally, I give the outside of the motor a light coating of the same oil with special attention to the lift brackets and other moving parts.

* * *

Dear Eric,

I have a problem with seasickness when I take long trips offshore. I had tried various cures and medicines, including Transderm, without success.

A story in a national magazine about the problems of Naval Officers who suffered from seasickness put me on to a pair of drugs that have cured my problem. I now take Pseudoepinephrine in 60mg tablets and Promethazine in 50mg tablets every 5 hours while I am on the water. This combination works great and the only time I have been sick was when I decided not to take a dose because I felt so good.

I pass this information on to you for the benefit of your readers who may consider taking up golf instead of fishing because they get seasick.

Walton Griffith.

Dear Walt,

Thanks for your information. I do caution anyone who wants to try this medicine to consult their doctor before they take anything. All drugs have side effects and if you have any medical problems these can cause more troubles than they cure.

* * *

Dear Eric,

A few years back, I bought a used fiberglass 14 foot MFG skiff made in 1972. Soon I will be purchasing a new outboard for it. My old 9.9 runs well, but underpowers the boat. I'm thinking a 20 or 25 horse is right, but worry about the risk of cracking the transom, or worse. It's a fairly light boat with only a 4½ foot beam.

Joseph Bonn.

Dear Joe,

From your description of the boat I would say a new 20 or 25 hp outboard might be too much power for it to handle. I would suggest a 15 hp outboard due to the narrow beam and age of the boat.

Before you purchase the new motor it would be a good idea to have the boat completely checked over by someone with a working knowledge of fiberglass boat building. A 15 year old fiberglass boat could develop some serious problems such as cracks in the hull or dry rot of wooden components that would make it unsafe. There is little sense in putting out money for a new motor if the boat is in bad shape.

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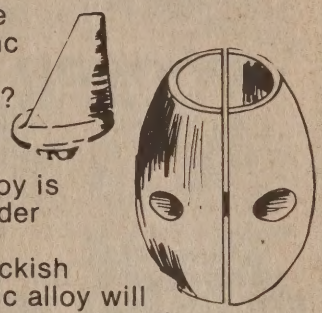

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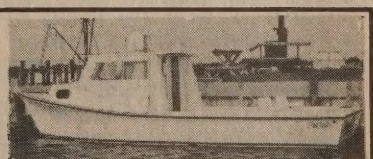

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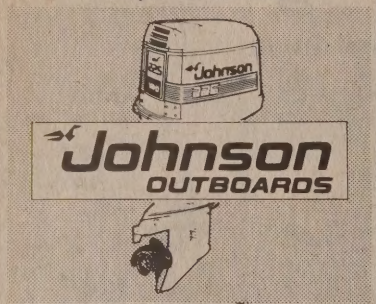

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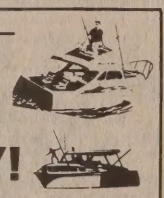

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1986 SUMMARY

SEND-A-KID FISHING

by Fred Golofaro

It's time again to say thanks from the kids, and The Fisherman, to all of you who contributed to the 1986 segment of The Fisherman's Send-A-Kid Fishing Program. At the start of last season, we hoped to reach a goal of sending 1000 youngsters out fishing during 1986. We had topped the 800 mark the previous season and expected the program to continue to expand.

The bad news is, we didn't reach the 1000 mark. The good news is, it wasn't for lack of trying. Many fine people responded to last year's plea to help us reach our goal. As a result, we had the funding to send 1,000 youngster fishing. Unfortunately, Mother Nature conspired to "rain on our parade." On two occasions, heavy rains caused some of the larger youth groups to cancel, or in some cases, show up with considerably less kids than planned. The rains also resulted in the loss of network news coverage which had been planned for the final trip of the summer. I'm sure this media coverage would have given the program an additional boost.

When all was said and done, just under 800 kids benefited from Send-A-Kid Fishing in 1986, down slightly from 1985. However, with a little help from the weatherman, we would have easily reached the 1000 plateau. Another positive note is that we are starting the 1987 campaign with nearly three thousand dollars carried over from last season.

As in the past, the trips will be run

Even a sea robin creates a stir among the kids.

Fluke are the prime target on most trips.

on weekdays during June, July and August, with donations graciously accepted throughout the year. Monies not used to fund 1987 trips will be used to get the next season's campaign rolling. The cost per child has been nine dollars the past two years. I suspect there will be little change in this discounted figure for 1987, though I have not yet met with members of the Captree Boatman's Association to finalize this year's plans.

There has been one disappointment over the years. The lack of support from major manufacturers in the tackle industry has me stymied, particularly when one ponders the following data. According to a report compiled by Dr. Rudolph Rosen, a fisheries specialist for the National Wildlife Federation, over half of all anglers begin fishing before the age of 8 and 96 percent are introduced to the sport by age 16! Let's hear from some of the "biggies" in 1987.

A special thank you to Michael Auerback, assistant director of Big Brothers/Sisters of Nassau County for his help in coordinating many of the youth groups that participated last season. Thanks also to William Tymann, executive director of BB/S of Nassau and Paul Freedman, executive director of BB/S of Suffolk for their cooperation. A round of applause is also due all of the captains', mates and chaperones for their patience and commitment to the Send-A-Kid Fishing Program.

The final and most deserving salute goes to all of you who took the time to make a donation during the past year. To all of those listed, thank you from me, The Fisherman and the kids for making Send-A-Kid Fishing work.

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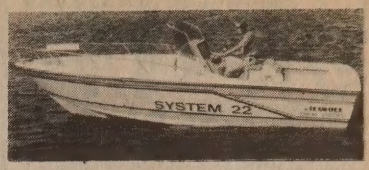
SEAWOLF 22



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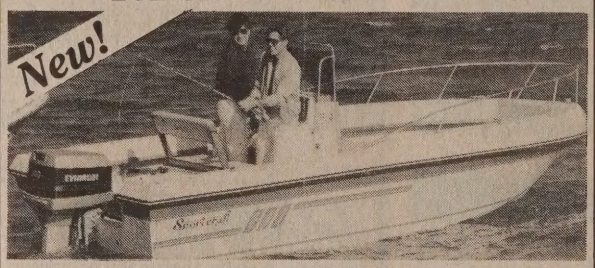

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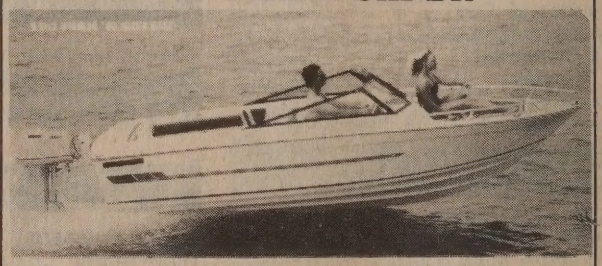

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NEW YORK SURF FISHING CONTEST SUMMARY

by John Fritz

The fishing season of '86 was an outstanding time for the vast majority of Long Island surf fishermen. The quality of our local surf fishing was reflected in the statistics compiled by the 10 participating clubs competing in the New York Surf Fishing Contest. Numerous contest records were not only surpassed but shattered by a wide margin, in many instances by more than one club or individual.

Twelve clubs paid the nominal entry fee, but only 10 clubs chose to enter fish, a somewhat puzzling turn of events in that a relatively new organization (being in existence only two years) handily took top honors in every category. In fact the Mid-Island Surfcasters broke the established record in three out of four annual club categories, the lone exception being Most Weakfish Points. This was not a case of a single club enjoying an extraordinary string of success but rather the pattern for any club whose members put an effort into catching and tallying their fish.

Relatively new organizations have shown the older, more well-known clubs that if they want to score well in the contest their members will have to be a bit more active and spirited in the interest of their club. Every club but one increased their total score in '86; in some cases more than doubling the points scored in the previous year. The total points in the Striped Bass and Bluefish Categories were bettered by all clubs while all but two clubs increased their total points on weakfish from the previous season. Even though weakfish seemed to be in short supply the ten clubs entered a new high of 259 yellowtails.

In contrast to the excellent fishing to be had along local beaches, the interest and/or success in entering striped bass from out of state diminished somewhat with only three clubs entering a limited number of fish. True to its fashion, Striper Surf Club led this division with 318 points.

In the women's and Children's Divisions, all but one category was filled, the lone exception being that no Junior Angler beached a qualifying weakfish. New records were set on striped bass in both the Women's and Junior Divisions. Jennifer Tyrer entered a bass of 26 lbs., setting a new mark in that category while Rich Simmons, Jr. established a new record with a striper weighing 32 lbs. Interest in these areas increased somewhat but it was unfortunate that several entries had to be disallowed due to errors and incomplete entry slips. This is a state of affairs I would hope to see corrected in the future, mostly likely by the parent, guardian, spouse or partner of the individual entering the fish.

In a brief examination of the past season's figures, as gleaned from the entry blanks of the Surf Fishing Contest, shows that for the first time since its inception in 1980, there were entries submitted for the month of April. Surprisingly, two stripers were caught from a north shore beach not

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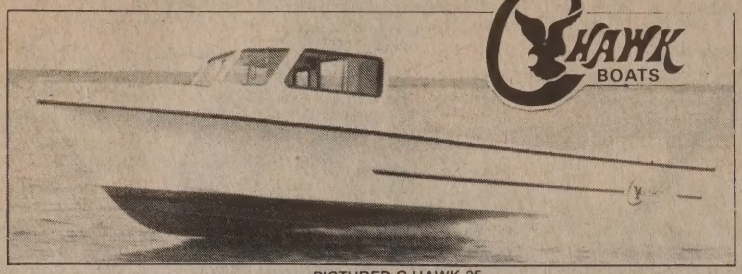

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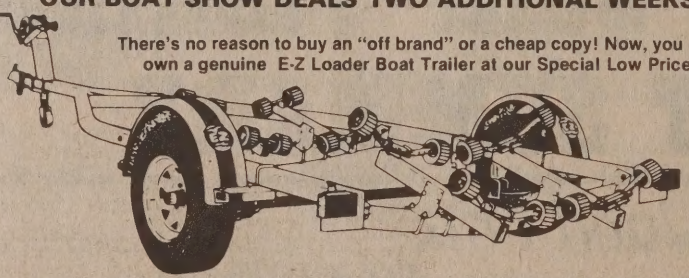

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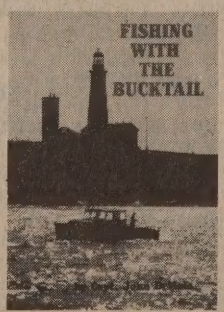

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influenced by the Lilco plant at Northport. Tom Watters beached and released two teen-sized bass on the last day of April.

May of '86 will go into the contest record books as the most productive May in the history of the contest. Coupled with two bass in the mid-30s were a surprising number of teen-sized bluefish, an indication of things to come throughout the remainder of the season. The latter part of May, as expected, continued to provide a good showing of hefty weakfish, even though only two clubs filled that category.

June was a month dominated by fine catches of striped bass, if one dismisses the fact that bluefish perpetually outnumber all species once they have announced their arrival. Knowledgeable surfmen know that June is an excellent time to catch large striped bass, a fact attested to by H. Wojcik who bottomed out a 50 lb. Chatillon, the best of 55 bass entered this month. June has also traditionally been time to score well with weakfish but sadly only 37 weaks were entered by contest anglers.

The first full month of summer saw some clubs scoring handily while others struggled to post a few fish. Geographically, no one area had a monopoly on the fish, unless one considers the results achieved along the oceanfront versus the poor showing in Long Island Sound. August, in contrast, is a time when successful surf fishing is normally a difficult feat. Not so in '86; several clubs posted impressive scores. True bluefish were far and away the predominant species, with many fish bettering the 15 lb. mark, but along with the 44 bass entered there was a respectable showing of hefty weakfish.

September saw a new weakfish record established when J. Wojcik weighed in a tiderunner tipping the scales at 16.10 lbs. An indication that September of '86 was a month punctuated by monster weakfish with 37 weaks over 11 lbs. entered. This run of outstanding tiderunners continued into the first half of October, but aside from the customary teen bluefish which flooded the oceanfront, cow bass made one of their strongest showings in the Long Island surf in recent memory. Seven fish over 40 were beached in October, but the following month proved to be the time for trophy sized bass when four bass over 50 were entered in the contest. All told, during the '86 season, there were 431 striped bass caught and released, 15 fish were 40 lbs. or better and 37 were in the 30s. The three other anglers who bottomed out the 50 pound Chatillon were O. VanHelmond, K. Kassan and W. Baribault.

Bluefish, though plentiful throughout the season, tended to be generally a shade smaller than in recent years, with the following notable exceptions. R. Lucchesi had a 21.1 and a 20.2 while sandwiched in-between was K.

Britz with a 20 lb. 5 oz. bluefish.

As stated previously a new contest record was set for weakfish, second place was held by R. Perlow who captured a weak weighing 15 lbs. 11 oz. Surprisingly, for fish weighed in officially on a certified scale there was a three-way tie for third place: H. Wojcik, W. Miller and R. Lucchesi all entered tiderunners tipping the scales at 14¼ lbs.

Following is a partial listing of some interesting facts uncovered by a cursory look at the clubs' entry sheets.

The record of total points for a season, set by High Hill Striper Club in 1980, was 1922. This mark was shattered by four clubs: Mid-Island 2751 points; Gateway, 2432 points; Hampton Surf, 2177 points; and Patchogue Fishing Club, 2066 points.

Annual striped bass points, again set by High Hill in 1980, was 989. Beaten last year four times by the same clubs: Mid-Island Surfcasters 1312 point; Gateway 1134 points, Hampton Surf 1080 points and Patchogue Fishing Club 1051 points.

Even though the bluefish, as a whole, seemed to run a bit lighter the old mark for total bluefish points, set the previous year by Gateway was broken. Mid-Island entered 1002 points for the blue devils and Gateway beat its old mark with 914 points.

The total poundage, by all clubs, was 18,424 points, but it should be quickly pointed out that 29,709 lbs. of fish were released by participants in the New York Surf Fishing Contest. A most impressive number of game fish to swim, spawn and to provide fun for future anglers. This is truly a tribute to the spirit in which participating club members approach their sport. In the Released Points Category the old mark was set by High Hill of 5,236 points in 1985, that mark was beaten three times this season: Mid-Island 7780 points; Gateway 6649 and High Hill released 7,407 lbs. of game fish.

The previous high of 44 striped bass for a season set by Gateway Striper Club broken by these same four clubs: Gateway 63 bass; Mid-Island 62; Patchogue 59 and Hampton Surf Club 50. Gateway tied their old record of entering 70 bluefish for the season, set initially in '85 and matched also by East End Surf Fishing Club. Mid-Island missed tying the record by one fish, having failed to fill the category in the month of May.

Individually 151 anglers entered fish in 1986 up from the old mark of 120 set last season. An an indication of the great year 1986 was for local surf fishermen, 18 anglers achieved a gold pin as compared to four in '85; 12 silver pins were ordered this year, 9 last; and 23 bronze versus 21 the previous season. In the way of an explanation, an angler must score over 300 points for a gold pin; over 200 for a silver and 100 for the bronze. The cutoff point for the top 20 surfmen was 253, last year it was 143. Fifty-three anglers will be granted Achievement Awards, posting 100 points or more, there were 34 awards given out to deserving anglers in '85. The individual point getter recorded an astounding 907 points while three others—O. VanHelmond, R. Perlow and K. Britz bettered the 700 point plateau, something never done before in the history of the contest.

I apologize if this hasty perusal of the contest records missed any relevant facts, but a complete compilation of all data will be forwarded to each competing club in the near future. If any sport fishing clubs have an interest in competing in the New York Surf Fishing Contest, forward your request to The Long Island Fisherman. They will, in turn, contact me and I will speak with your club representative answering any questions he may have.

In closing, I would like to thank all those who participated in the contest, competing in a spirit of sportsmanship and conservation. Surf fishermen are truly a unique breed of angler and those who pursue their sport solely for the enjoyment they receive is a special kind of person. A special thanks to all the Club Reporting Officers for they made my job so much easier. The gratitude and support of all of us should be extended to The Fisherman for sponsoring the Contest for the past three years.

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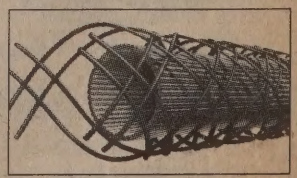

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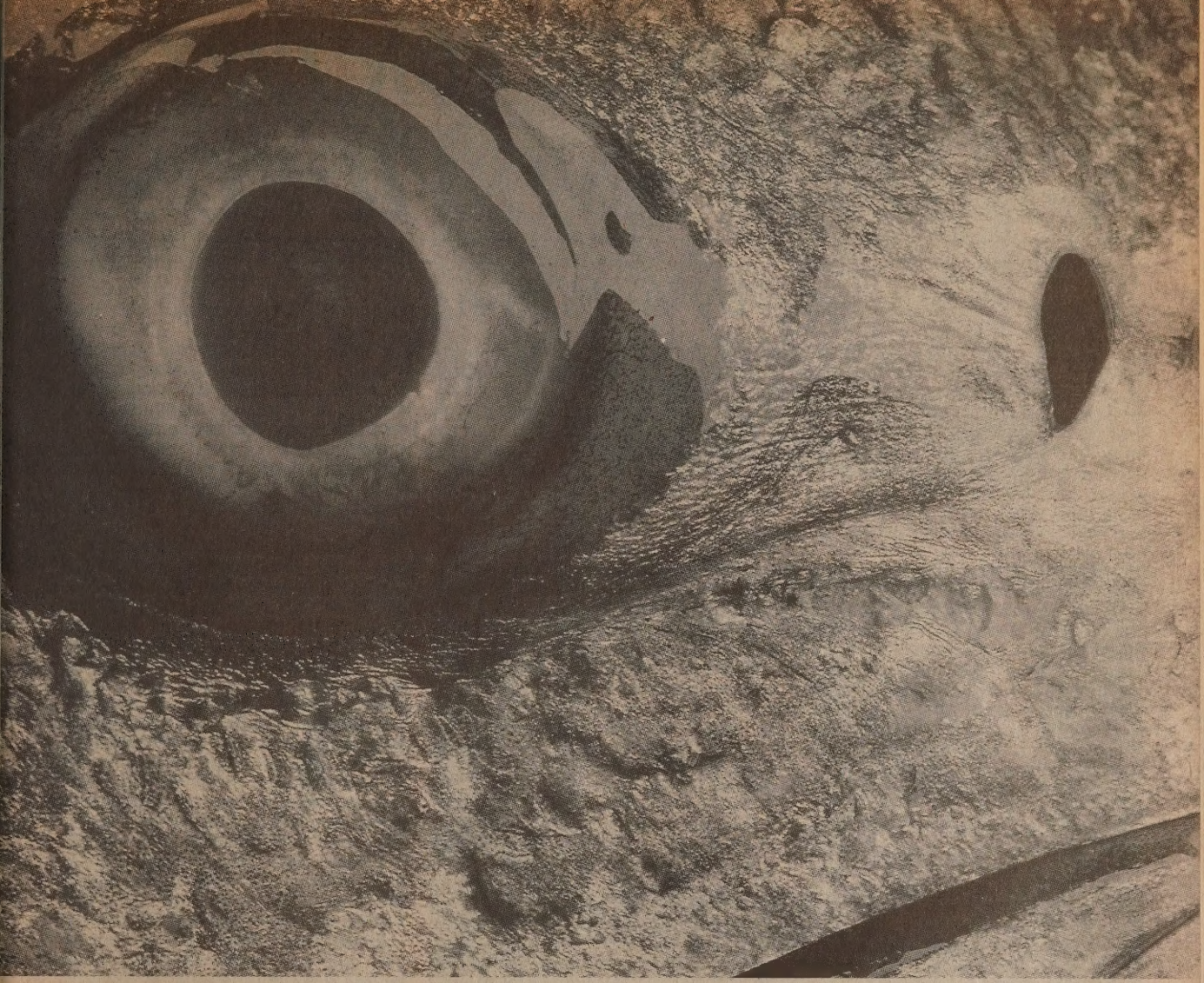

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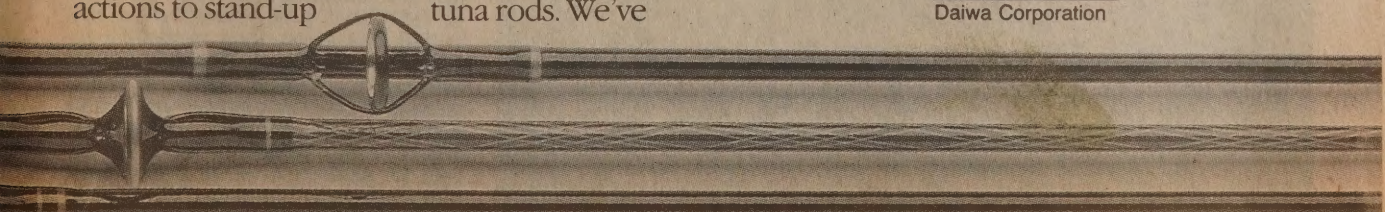

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★ ELECTRONICS FOR 1987 ★

GRAPHS AND VIDEOS

by Al Ristori

In a recent article (Electronics for 1987: LCD Recorders, Issue No. 1), I discussed the liquid crystal display recorders which are rapidly taking over the fish finding field. However, as noted in that article, the present LCD units simply don't provide the detail which can be obtained from fine paper and video units at present. All that will probably change within the next two or three years, but if detail is important to you now, then a paper or video recorder may be a better bet.

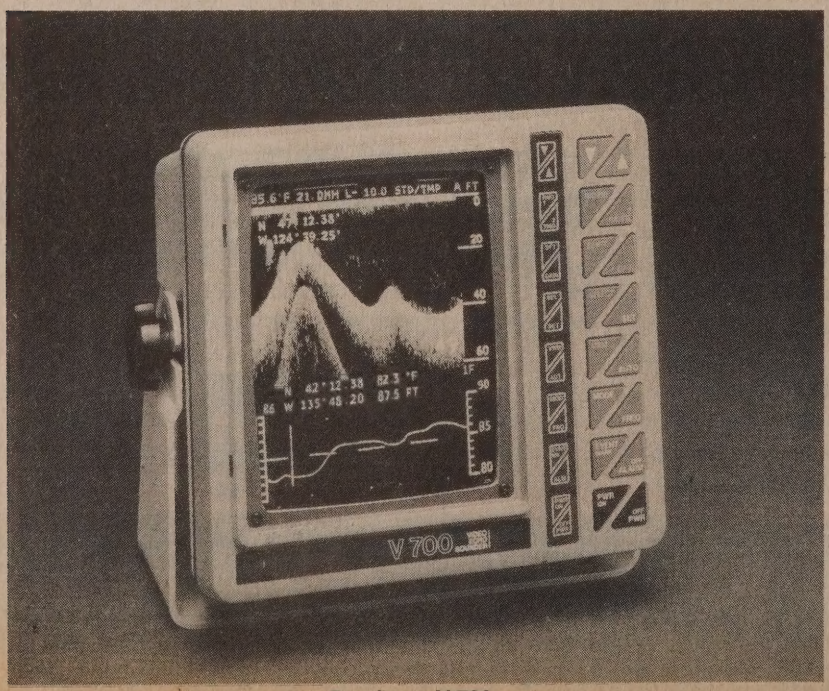
Paper graphs provide the greatest detail in a limited area and also leave the angler with a permanent record of what has been recorded.

Of course, there are disadvantages to the paper graphs. The most obvious is the need to buy, install and change the rather expensive paper. The quality of your readings is directly proportional to the speed at which the paper is run. You'll get those classic "V" or "U" shapes when the paper is running through at high speed and it will be quite easy to distinguish the size of fish and target species from bait when you do this. The only problem is that you'll also be spending a lot of money on paper—or may run out before the trip is over. Paper machines may also hang up from time to time and the stylus that burns the info into the paper creates soot which must be cleaned from time to time.

Video units overcome many of these problems. There are no moving parts to wear out and no paper to worry about. The modern color video is a lot easier to read than the original black and whites and you can get a lot of information from those presently on the market.

The choice is a bit more difficult for smaller boats, since the videos aren't as well protected against saltwater and direct sunlight and there's often not enough room for a large video. I've compromised by going both ways on my Mako 25 Sheri-Berri. The Lowrance X-16 graph sits on the console and takes both saltwater spray during the day and a freshwater washdown in the evening without a bit of protest. A Ray Jeff Telescan is crammed into the instrument box just ahead of the wheel on the console. It's well protected there, and the color video serves as a good back-up while providing surprisingly good readings on a small screen.

With the electronics field changing so rapidly, it's not easy for the angler to make a choice from among LCDs, paper graphs and videos. Consider all your circumstances carefully and keep that waterproofing in mind as a primary factor if you can't provide adequate protection on your boat. It's a lot cheaper to buy paper than to fix electronics that can't live with salt spray!



Raytheon V-700.

Lowrance: With the emphasis on the rapidly improving liquid crystal graphs, Lowrance has held the line with their best selling X-16 Computer Graph. That four inch unit features 1000 lines of info from top to bottom and a virtually limitless number of possible range selections; along with a permanent memory that retains the last settings used for when it's turned on again. Now there's also the LXC-16 adaptor which allows the angler to choose a 192 kHz or 50kHz mode with installation of a second transducer. Then there's the LCI-16 option which interfaces the Northstar 800X and Si-Tex 757, 757C, 760, 767, 767C, 787, 787C, 797 and EZ7 Lorans. The Mieco Sea Master V hooks up directly. The X-16 is completely waterproof.

Eagle: This division of Lowrance is also emphasizing the LCG units, but retains two computer graphs: the Z-15 with 8 and 20 degree transducers for fine detail, and the Z-155 which operates on 50 kHz with a wide 45 degree beam for those who want to track downriggers. Like the Lowrance X-16, these are completely waterproof.

Humminbird: This company has gone completely with LCR units and dropped both their paper and video products.

Ray Jefferson: There are now four video models in this line. In black and white you can choose from the new Telescan T-480 that lists at just $599.95 or the more sophisticated T-1500 with a list of $849.95. Both feature a 6 inch CRT viewing tube and show fish and bottom structure in four distinct shades of gray. The T-480 has six basic depth ranges from 0-30 to 0-49] feet plus zoom; while the T-1500 has six ranges from 0-30 to 0-960 feet pluz zoom. This includes a tri-transducer which also provides surface water temperature and boat speed. The two 6-inch color versions are the new Telescan T-880 which lists for $899.95; and the T-2000 that includes the tri-transducer for $1199.95. As with the black and white

units, the better color video will record twice as deep (to 960 feet).

The MX-2550 white line is a computer graph that now also has an LCD readout of depth at all times. This is a handy feature which saves paper when all you're interested in is depth. The MX2550 will chart any depth from 3 to 400 feet and has a water resistant keypad with a 4x4 inch chart viewing area. List price is $799.95.

King Marine: Though this company is also edging into LCDs, they're still a major force in both chart recorders and color videos. Both the 6 inch 4060 and 8 inch 4000 color videos are relatively low priced units that also provide surface water temperature. In paper machines, the 4 inch 1060 is a cassette loading microprocessor that now has surface water temperature and hull speed on the paper and in the LCD window where bottom depth is displayed. The 1060 interfaces with the King LC 8001 Loran to print out TDs on the paper. The 6 inch King 1350 microprocessor recorder includes the LCD display of depth and alarms for anchor watch, keel and sonar; and interfaces with the LC 8001 Loran.

Si-Tex: The HE-708 color video is a compact unit with a 6 inch (diagonal) display and seven depth ranges from 0-10 to 0-600 feet plus shift capability to 1200 feet. The HE-708 digitally displays bottom depth and surface water temperature, and there's also a temperature graph. Auto shift automatically keeps the bottom on the screen and zoom control provides closer looks. The HE-702 is a similar metal case version that lacks an alarm capability. Unique is the HE-7000 amplifier and matching transducer that turns any color TV set into a 5-color video sounder. All features are included.

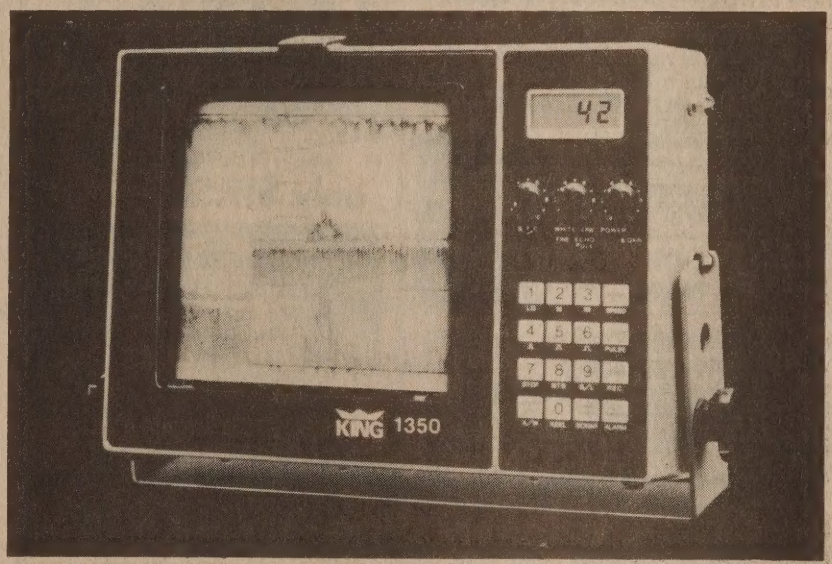
Micronar: The freshwater division of Si-Tex features the M-700 color video with five depth ranges from 0-10 to 0-600 feet plus zoom control and digital display of depth and surface water temperature, along with a temperature graph.

Raytheon: The 8 inch V800 color video is a powerful unit with full or split screen displays and just about any feature you can think of, including a weatherproof NAV mode that eliminates the need for a separate navigation sounder. Raytheon also has the compact, weatherproof V700 amber display 7 inch diagonal CRT with full and split screens showing full depth, mid-water zoom and surface water temperature graph.

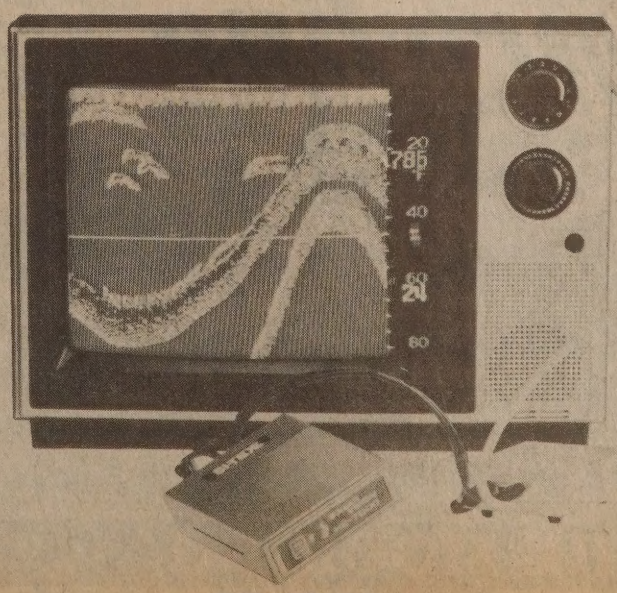
Apelco: This division of Raytheon has very modestly priced units. The newest is the unique XCD 600 which combines an LCD recorder with a paper print-out, as desribed in the previous article. The XVC 8000 color video provides an eight color 6 inch picture in a compact unit that measures just 5 x 8 x 11 inches and weighs less than 9 pounds. It has selectable ranges to 600 feet,

(Continued on next page.)

Ray Jefferson Telescan 880.



King 1350.



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Furuno: The black and white FMV61 and eight color FCV66 are 6 inch video sounders with deep water capabilities to over 2000 feet. Both have seven basic and seven phased ranges to easily zoom in on any part of the water column.

Koden: There's quite a choice from this manufacturer of very sophisticated sounders. Least expensive is the compact MVS-1 black and white with a 6 inch diagonal screen. It ranges to 1280 feet, has digital read out of speed, temperature, trip distance and bottom depth—plus Loran C interface. The new Koden CVS-101 Mk2 is a compact 6 inch diagonal eight color video with Auto Range and Auto Zoom. It also has the digital read outs and Loran C interface. For larger craft there are 8 inch videos: the CVS-88 and CVS-8808.

Interphase: The water resistant amber 20/20 is a compact unit that displays targets in four distinct shades from 0-10 to 1500 feet. It also gives digital read outs of speed, temperature, depth and a distance log. The new and inexpensive LC-200 is a 6 inch amber-colored CRT with four depth ranges from 0-10 to 0-500 feet plus a zoom feature. It measures only 5.5 x 7.5 x 7.8 inches.

Impulse: The color 8800 has a 5 inch screen with over 16,000 pixels for fine definition in four colors. There's Auto Shift to automatically adjust to show bottom and Auto Trac to calibrate screen speed to vessel speed for a consistent image—plus digital speed, depth, distance log and surface water temperature. There are over 50 depth ranges from 0-10 to 1000 feet. The black and white 6800 has the same features in a 5½ inch CRT display and the economy 6115 uses that same screen with 12 depth ranges from 0-15 to 1000 feet plus a two position zoom that allows range doubling on all ranges.

Pulstar: The black and white 300 has a 6 inch screen in a watertight case and 10 zoom ranges from 0-20 to 160-480 feet. It measures only 6½ x 6¾ x 7 inches and lists for $699.95.

SMR: The new Striker CVR-1280 is a color video with a maximum depth of 1280 feet. Measuring 6 x 8 x 10½ inches, it lists for $999. SMR also features a couple of 4 inch white line chart recorders: the ST-440 (0-60 to 440 feet) and ST-480M (o-15 to 480 feet).

Echotec: The big 10 inch CV 990 has 1000 watts RMS transmit power with capabilities to 4000 feet and both 50 kHz wide beam and 200 kHz narrow beam capabilities. Either view may be shown on the full screen or both together on split screen. List is just $2195. Just a step below is the 10 inch CV950 with 800 watts RMS and the 6 inch 600 watts RMS CV550. Both are available in either 50 kHz or 200 kHz. The Bass & Bay is a wide beam, shallow water 50 kHz color sounder that ranges from 1 to 900 feet and comes in 6 or 10 inch screen sizes.

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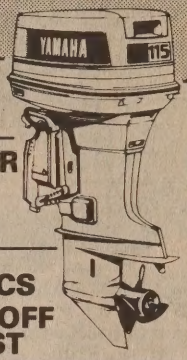

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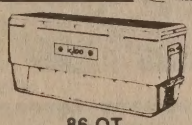

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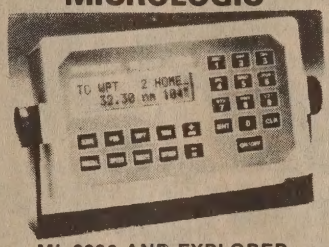

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TOOTHY AND INDUSTRIOUS

by Matt Ahern

Innocent and undeserving of the many harsh words hurled its way, the bergall has always been the bane of bottom fishermen—especially those who have blackfish on their mind. Any angler who can outwit the bergall is not only a good fisherman—he's a miracle worker.

So, with this introduction, let us examine this toothy and industrious fish whose only friend seems to be the bait supplier.

In many localities, local fish are known by more than one name. The bergall is no exception. Should you hear fishermen say all they got last time out was a mess of large cunners, don't anticipate new fishing horizons are just around the corner. This is the name given the bergall by most New England and New Jersey fishermen.

Bergalls belong to the wrasse family of fishes (so does the blackfish). Members of the wrasses include those exotic, colorful fish of the Florida reefs we often see gliding past on our TV screens. Bergalls and blackfish are closely related and where one is found, there you will find the other. Seldom do blackfish outnumber bergalls on the same ground.

While a blackfish's coloration is predominantly black, brown or gray (brown is usually found on immature fish and females), the color of the many hued bergall varies greatly. Shades of green, blue, yellow and brown are common, but at any time one may be caught that is peppered with black spots, or have dark bars running over its sides. Occasionally, one will be dark red or bright green.

Many years ago, U.S. fisheries scientists Bigelow and Welsh said of these fish: "To describe the color of the cunner is to list all the colors of the bottom on which it lives, it being one of the most variable of fishes."

Enough food to sustain life is always a problem for fish (and come to think of it, we're no exception), but where the bergall is concerned, anything that exists in its environment is grist to its mill. Its natural food consists of mussels, barnacles, shrimp, infant clams, all marine worms, fish eggs and any young fish it can handle, including their own.

Most fishermen will agree that where bergalls are found it is just about impossible not to catch them. Thereby lies the reason bergalls are vilified and maligned, for many anglers feel any fish this easy to catch isn't worth the effort. Surprisingly, though, bergalls are often purposely fished for by both veteran and novice. They find them not only good eating and good sport on light tackle, but a sure way to hone their fishing skills.

Bergalls that are caught close to shore are usually small, seldom exceeding 8 inches in length. But throughout the deep water of Long Island Sound and on offshore ocean grounds, bergalls often reach 2 pounds. Some fishermen claim a weight of 3 pounds is attained on these grounds, but I've never seen one this size—and I've certainly seen my share of bergalls after 65 years of fishing. One spot noted for harboring outsized bergalls is the 17 Fathom Bank off Sea Bright, New Jersey. When I was a young tad, there was a commercial fishery going on here for those large bergalls.

Spawnings that occur late in the season when the water is warmest, meet with more success. But even then, these delicate eggs are still susceptible to destruction as at any time abnormally cold currents can wreak havoc. The bergall has a tough time of it, but enough survive to pester the life out of dyed-in-the-wool bottom

fishermen seeking blackfish, porgies, sea bass and cod.

Because of their notorious bait-stealing habits, bergalls are not well regarded by the average fisherman—but they are far from being a trash fish. Many years ago, as noted, these fish supported a small but prosperous commercial fishery, particularly throughout New England were the average bergall is larger. To the present day, a demand still exists which is satisfied by a few hard-working commercial fishermen who employ large specially constructed fish traps in choice areas.

Many fishermen, including myself, have found bergalls to be fine food fish; the meat being sweet and flaky. Because small bergalls are too bony to compensate for the effort involved, good sized fish are required to make it worthwhile. When large bergalls are caught, interested fishermen should save a few and try them.

When preparing whole bergalls for the pan, it is best to skin them. (Bergall scales are nearly as tough to remove as those on blackfish.) Remove the head and then cut around both sides of the dorsal fin, then around each side of the anal fin to the vent. Make a shallow inward cut at the aft section of each fin, and then hold with the aid of a rag or dry newspaper and lift out. The skin when started at the shoulder peels off easily.

If you'd rather fillet, remove the head but don't bother to skin or lift out the fins; it isn't necessary. Slice the meat from the sides, following the contour of the fish, and remove. Then make a cut through the meaty side of the fillet to the skin, about a half inch in from the tail end. Hold the knife there and pull the skin toward you with sideway motions against the knife blad. Takes but seconds.

I don't know if it is necessary to tell any sinker bouncer how to catch bergalls as these fish seem to have an affinity for committing suicide, but rigging is the same as for blackfish. The best bait is skimmer—or any type of clam. Conch is a fine bait as its leather-like toughness makes rebaiting less frequent. As for hooks, any of the short-shanked varieties from a #6 for inshore fishing, to a 1/0 for the larger offshore fish will do the job. It will take a little experience to get the "feel" for the exact moment to sink the hook—they aren't called bait-stealers without a good reason. This acquired skill is sure to help develop a sensitive feel for more wary fish.

And don't forget, the successful blackfisherman is the one who has learned to distinguish between the bite of the speedy bergall and the no-nonsense approach of his desired quarry.

I suppose it behooves all sinker bouncers to learn to live with the bergall. You may be sure the bergall will always be with us. Heck, some bottom fishermen may even find the toothy and industrious bergall isn't such a bad fellow...once you understand the poor guy.

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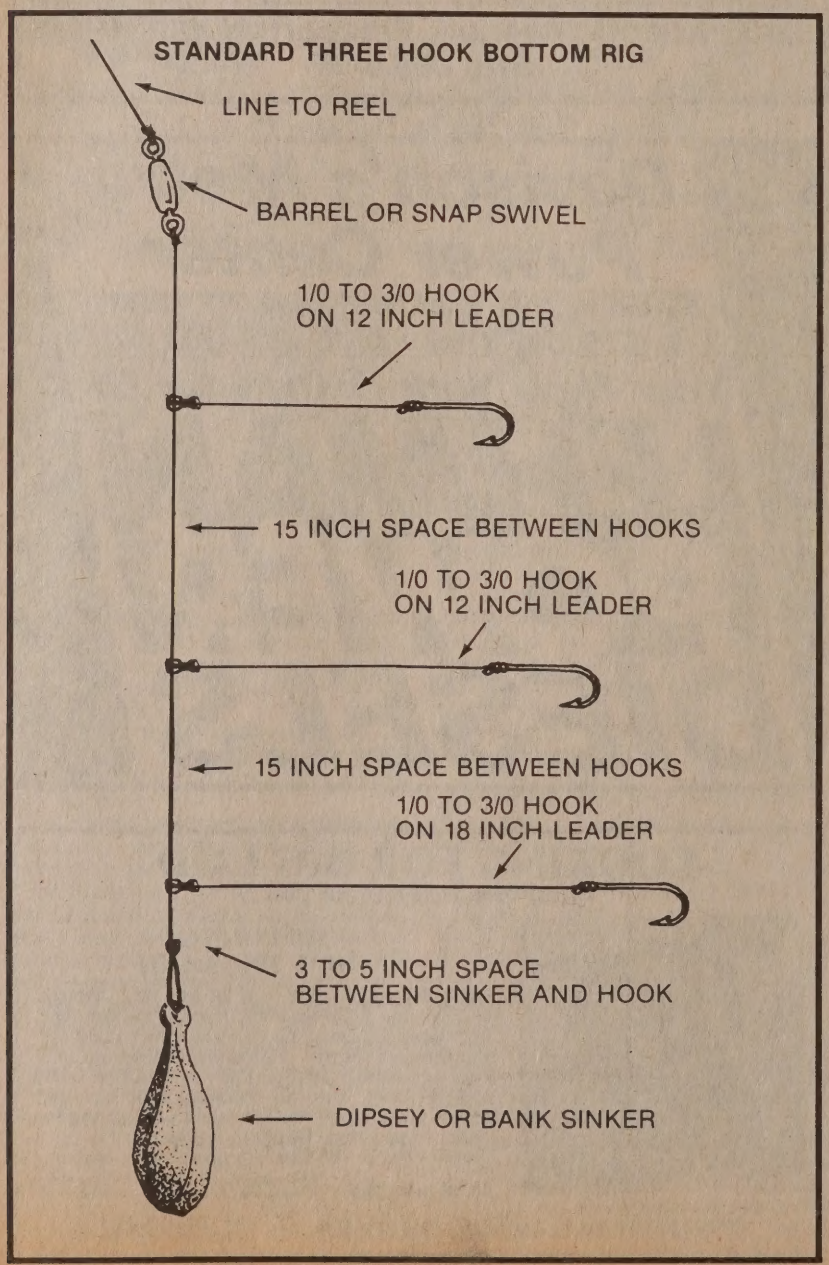
THE TERMINAL END:

RIGGING FOR LING & WHITING

by Russ Wilson

There are few serious saltwater fishermen who have not, at one time or another, tried their hand at catching whiting or ling. Neither fish is much of a fighter, nor do they attain the size of most other popular saltwater fish. But they do fit into the overall fishing scenario and without them, there would not be much sense in saltwater fishing throughout the winter season.


STANDARD THREE HOOK BOTTOM RIG
LINE TO REEL
BARREL OR SNAP SWIVEL
1/0 TO 3/0 HOOK
ON 12 INCH LEADER
15 INCH SPACE BETWEEN HOOKS
1/0 TO 3/0 HOOK
ON 12 INCH LEADER
15 INCH SPACE BETWEEN HOOKS
1/0 TO 3/0 HOOK
ON 18 INCH LEADER
3 TO 5 INCH SPACE
BETWEEN SINKER AND HOOK
DIPSEY OR BANK SINKER

Although not considered game fish, whiting (silver hake) and ling (red hake) are among the most highly sought cold water fish. There is an active party and charter boat fishery for both species and many long time captains probably would not be able to remain in business during the winter if it were not for the income whiting and ling offer when most other species have vacated shore area waters.

The whiting, *Merluccious bilinearis*, is extremely aggressive and will actively pursue smaller baitfish. Often, when in a feeding frenzy, whiting will drive smaller fish onto the beach and then follow their prey onto the sand.

It was common practice during the post war years to go "frostfishing" at night. As the whiting chased the smaller fish onto the beach, they would, for a moment, become stunned by the frozen sand. Alert anglers could then run to the stranded whiting and pick it up. At other times it was necessary to wade into the water and net the whiting as they attacked the baitfish. During our misspent youth we had more than our share of half frozen fingers and toes when partaking of this off-beat wintertime sport. But, it was lots of fun.

We've also caught lots of whiting that were preying upon smaller forage fish when fishing from the jetties and casting swimming type plugs, metals, bucktails and when fishing natural baits just beneath the surface or near bottom.

Whiting are silvery in color (hence the name of silver hake) with a near black back. They possess a set of needle sharp teeth, designed to catch and hold smaller fish.

The majority of whiting that are caught from coastal waters will weigh in the neighborhood of 1½ to 2 pounds, although fish of up to 5 pounds have been recorded. Most years some 'baseball bats" or fish that measure up to 30 inches in length are reported, but these are the exception rather than the rule.

The red hake, *Urophycis chuss*, is brownish to dark red in color and is less likely to be found feeding far from bottom. Most of the ling that are caught from Atlantic coastal waters will be found on or near bottom. Natural baits are the key to success

when seeking the red hake. Very seldom will a ling attack a moving lure although this has been known to occur on occasion.

Known by many names, some not very complimentary, the ling is an excellent food fish with delicately flavored white flesh. Many long time party boat skippers claim they would rather have a meal of fresh caught ling than most any other fish.

We tend to agree.

Providing excellent angling opportunities in the winter and again during early spring, whiting and ling can be found throughout most of the north coastal area. Water temperature, sea condition and baitfish availability are the primary ingredients to catching these tasty fish.

The optimum water temperature for catching ling and whiting is said to be 40 degrees. This is basically true, although it is not at all uncommon to find both species inhabiting inshore waters when the immersion thermometer shows a high reading of 50 or a low end of 36 degrees.

Once water temps drop into the mid-30s, ling and whiting will move off to deeper waters and will often be found inhabiting depths of more than 250 feet. Most years inshore fishing will continue until mid or late January, then shift off to the ultra depths for the remainder of the winter. As spring arrives and water temperatures begin to climb, the fish will move back to the inshore waters.

It is possible to catch hake on day or night tides. When fishing from the jetties the night tides are more productive than daytime, with the best fishing normally occurring between dusk and midnight. On occasion, however, ling and whiting can be caught from dusk to dawn.

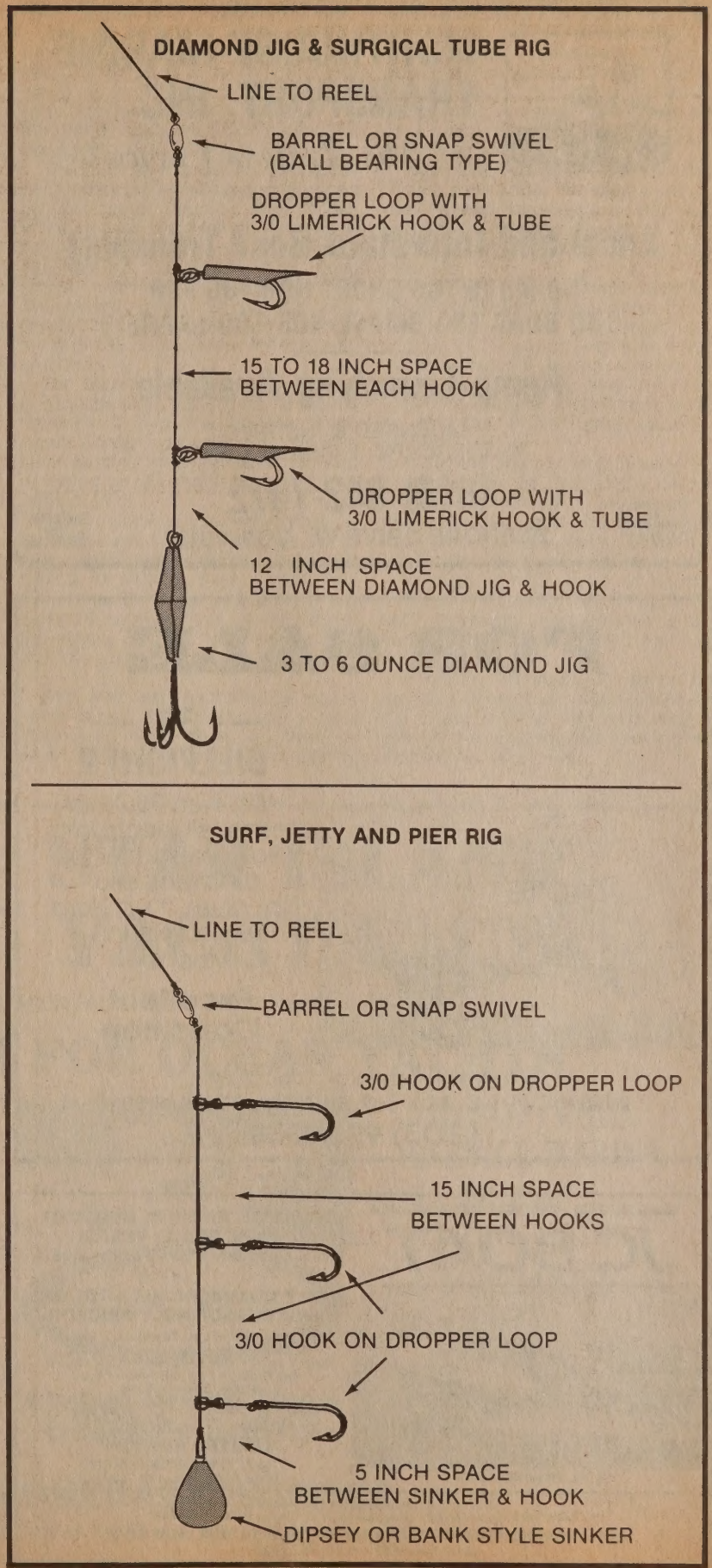
Inshore fishing success is entirely dependent on sea conditions. When the seas are rolling or murky, whiting and ling fishing is poor. However, on nights when the ocean is flat calm and clean, baitfish will come into the shallows and it is often possible to catch fish as fast as you can get a bait into the water.

Surf and jetty fishermen, in particular, must rely on the weather and should do their fishing when sea conditions indicate the fish will be feeding in close to shore.

You'll know when whiting are present for they will be swirling and splashing on the surface as they attack smaller baitfish. Ling are not as obvious and the only sure way to tell if they are in the shallows is to fish a bottom rig baited with some type of strip bait.

Party or charter boaters can enjoy good catches even when the ocean is rough or dirty by probing slightly deeper waters. When the Atlantic is kicking up its heels, ling and whiting will generally move offshore a short distance where water turbulence is not as great. Land-based anglers cannot cash in on this fishing, but boaters can, and do, enjoy good

(Continued on next page.)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LINE TO REEL
BARREL OR SNAP SWIVEL
(BALL BEARING TYPE)
DROPPER LOOP WITH
3/0 LIMERICK HOOK & TUBE
15 TO 18 INCH SPACE
BETWEEN EACH HOOK
DROPPER LOOP WITH
3/0 LIMERICK HOOK & TUBE
12 INCH SPACE
BETWEEN DIAMOND JIG & HOOK
3 TO 6 OUNCE DIAMOND JIG
SURF, JETTY AND PIER RIG
LINE TO REEL
BARREL OR SNAP SWIVEL
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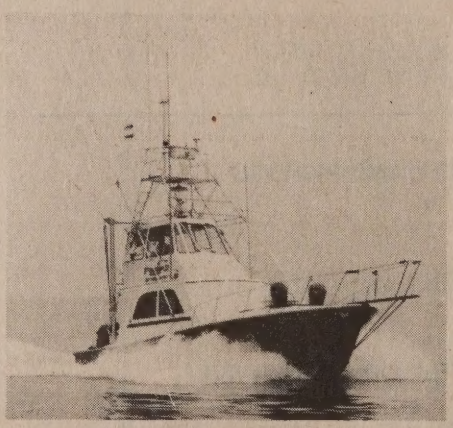

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fishing whenever they can clear the inlets.

Unlike the inshore fishery, boaters can catch hake throughout daylight hours as well as at night. Often the best fishing will occur as darkness falls and for this reason, many coastal party and charter skippers now offer a special "magic hours" trip that departs the basin at 3 or 4 PM and returns to port around 9 or 10 PM.

Originally instituted by Captain Joe Vassello who operated the Captain Joe out of Belmar Basin, NJ, the evening trips were designed for winter anglers who wanted to enjoy some whiting fishing but had to get up in the morning and return to work. The standard all night trips did not allow anglers this luxury.

You will not need specialized tackle to catch ling or whiting. Most of the regulars at party boat fishing will carry mid-weight spinning or conventional gear that is rated to handle 20 pound test line and lures weighing up to about four ounces. A rod measuring approximately 7 feet from tip to butt should suffice for inshore or offshore situations. Any reel that will hold a couple hundred yards of 20 pound test line is more than adequate for this type fishing.

Surf, jetty and pier fishermen will find that light to medium weight tackle is suitable for catching hake. When casting lures, a 6½ to 7 foot light outfit with 10 or 12 pound test line will fill the bill nicely. Bait fishing will require slightly heavier tackle as it is often necessary to use sinkers of up to 4 or 5 ounces to hold bottom.

A lot of today's wintertime anglers are using spinning rather than the standard conventional type equipment. And for good reason, since spinning does not require finger control, it is possible to cast and retrieve line without getting fingers wet.

When using conventional revolving spool reels it is necessary to lay the line onto the reel evenly by controlling it with finger or thumb and when the water is near freezing numbed fingers will quickly take the pleasure out of fishing.

There are many, many popular bait rigs currently being marketed throughout the northeast. Some are practical for inshore work, while others are designed specifically for deep water fishing. We've tried most and have settled on a few that always seem to put fish in the cooler. Those illustrated are a few of our favorites.

Standard Three Hook Bottom Rig: This is the meat fisherman's special. Tied with three hooks, it will often produce double and triple headers and will catch ling from the bottom as well as whiting that are feeding a few feet off the bottom.

To make this rig you'll need a 42 inch section of stiff 20 or 30 pound test monofilament leader material. Start off by tying a sinker loop at one end of the leader. You can use a perfection or Surgeon's knot for this purpose, or use a snap swivel in place

of the loop knot.

A lot of snaps, swivels and other unnecessary hardware is not really needed to make most rigs. Dropper loops will fill in for the three way swivels and as noted, a perfection loop or Surgeon's knot can be used for attaching sinkers.

Our bottom hook is usually tied in via a dropper loop. By slipping the loop from the hook leader through the dropper we have a clean, but strong, connection. The leader on this hook should measure 15 to 18 inches and is spaced 3 to 5 inches above the sinker.

The second hook, tied on a 12 inch leader, is also attached via a loop to loop connection and is set so it rides 15 inches above the bottom hook.

The uppermost hook should be placed 15 to 18 inches above the second hook and is tied on a 12 inch leader also.

We use regular beak style hooks when baiting with strips of herring, bunker, mackerel or whiting belly but most any style hook in a 1/0 to 3/0 size will do.

Diamond Jig and Surgical Tube Rig: A lot of party and private boatmen are now using this type rig when fishing middle range waters. The weight of the diamond jig serves as a sinker as well as a fish catcher and the added flash of the fluorescent tubing makes the rig attractive to whiting and ling as well as mackerel. The hooks with surgical tubing can be used plain or with a small strip bait.

Many experienced whiting fishermen tie the diamond jig direct to the end of a length of 30 or 40 pound test leader. A small snap can be used but by tying direct you do cut down on the amount of hardware which means the rig is less costly to make.

The first hook is tied in via a dropper loop 12 inches above the diamond jig. We prefer limerick style hooks when using a short length of surgical tubing, but if these are not readily available you can get by with a long shank model in 2/0 to 4/0. The strip of fluorescent tubing should be long enough to cover the dropper loop and most of the hook except for the bend and barb.

The second hook is tied in so there is a space of at least 15 to 18 inches between it and the bottom hook. Again, using a dropper loop, tie in a limerick style hook and slide the piece of tubing up the shank so it hides the dropper knot.

That is all there is to tying this rig. It is one of the most productive we've ever used when fishing mid-depth waters for whiting. And, if you really want to load the cooler in a hurry you can add another hook or two above the others and haul four or five fish over the gunnel at a time!

Surf and Jetty Bait Rig: In recent years many saltwater anglers have discovered how much fun there is when fishing from surf, jetty or pier for whiting and ling. It is a cold sport, but the rewards justify the discomfort.

As previously mentioned, it is often possible to catch lots of whiting when casting plugs, metals or bucktails. Bait fishing is equally rewarding and as a bonus, you can catch plenty of ling along with the whiting.

Bulky rigs just do not make it when fishing from shore. Tangles are an all too common occurrence, so rigs must be tied to avoid the chance of hooks swinging around and tangling each other.

This rig is virtually tangle proof and will work as well as any we've found.

Start off with the standard 42 inch section of 20 pound test stiff leader material. Tie in a dropper loop for the sinker (bank or dipsey style) and make your first dropper so the hook is set no more than 3 to 5 inches above the sinker.

A second dropper loop is tied in 15 inches above the first and a third is set so it is spaced 15 inches above that one. This gives you three baits, each placed strategically so fish that are feeding deep will spot them.

We use slender strips of herring, mackerel or bunker. Each strip is cut so it measures approximately 3 to 4 inches in length and about a half inch in width.

There are hundreds of rigs on the market and most will catch. These are but a few of those that have been in use by the regulars and have proven themselves under fire.

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DEEP FREEZE TOG

by Ken Freel

The winter blackfish season is in full swing now and most of the veteran fishermen are out on the boats as often as possible to catch as many of these tasty rocky bottom dwellers as possible. This is also a prime time for other fishermen to try their luck with these feisty fighters.

Blackfish, or tautog, are found all along the Northeastern coast from South Carolina to New Brunswick, Canada. And although the blackfish is an excellent eating fish, you won't find it in many fish markets. Commercial fishermen simply cannot get to these critters among the rocks. This is unfortunate for the general public, but a big plus for the die-hard fisherman.

The heart of the winter season generally occurs from October through mid-February. The months and dates change a bit from year to year as the most important factor to consider is the water temperature. Water over 40 degrees, but under 50 degrees is best. When the water drops under 40 degrees good blackfishing ends. Snowstorms and the subsequent melting of the snow that comes down the Hudson River and others can and will drop the ocean water temperature fast. So keep an eye on weather conditions in general each day, up to the day you go out, to make sure the water temperature hasn't dropped below the critical 40 degree mark.

If you're lucky enough to find the time to get out fishing you better be ready to fight the winter weather as well as the fish. It's a good idea to wear a little more clothing than you think you will need. If you become too warm you can always take some off. Many winter fishermen wear jumpsuit style outfits. Insulated rubber boots are a great choice to keep your feet warm and dry. You should wear a good wool hat or hood. In fact, you must wear a good hat. You don't necessarily need gloves, but definitely bring a good size rag to wipe your hands and keep them dry.

A variety of fishing outfits can be used for blackfishing. Rods 7 to 8 feet are the norm with medium to heavy play. Any reel you decide to use should have a fast reel to line ratio because you'll be fishing in water from 50 to 75 feet or more in depth. A Daiwa model 50H is an excellent all around fishing reel to use according to Captain Gary Fagan of the Big Mohawk II out of Belmar.

A recent fishing trip aboard the Big Mohawk II brought us to the Rattle Snake off of Sea Bright and then onto the Farms. Both areas have rock strewn bottoms, ideal for blackfish. It was only two days after a heavy northeast rainstorm and the fish were not cooperating out at the Snake. But the captain moved onto the Farms and the action picked up.

Veteran anglers can catch over 100 fish on a good day, but even on "slow" days they may have 15 to 20 fish. All the fish are keepers.

The first thing you'll probably notice as you drop your line to the bottom is the hit of the pesty bergalls. These small pests inhabit the same rocky bottoms as blackfish. Almost every time I dropped my line the first hit was the quick tapping of the bergall. It was usually a good sign though. The bergalls take some time

trying to get a properly baited green crab off of the hook. Often a blackfish will notice the bergalls nibbling on the bait and will rush over to claim the meal for its own. Just before this happens the tapping will stop. Then, if the bait is still on, you will feel a more steady type hit. Wait a few moments to allow the blackfish time to chew on the crab and get it into its mouth. A steady feel of weight or pull usually follows. Now, if you've waited the proper amount of time, a good hard yank on the rod will hook the blackfish nicely. Make sure to start reeling immediately to stop the fish from getting back into its rocky den.

If it's your first time out blackfishing be sure to ask the mate how to properly set up your outfit. Let the mate show you how to correctly bait your hook. You won't need swivels or any other metal on your line. It will only get you caught in the rocks and you will lose everything, maybe even a monster tog. If the fish are large (over 5lbs.), use a number 4 or 5 hook; if they are smaller go with a number 8 hook. Usually, a single number 6 or 7 blackfish hook with the proper size sinker attached directly to the line is all you need. Bring plenty of extras because the fish and the rocks will claim a few for keeps.

Live green crabs or fiddler crabs are used for bait. To prepare them for the hook you cut their legs off and remove their protective shell. Sturdy scissors work better and faster than a sharp knife or by pulling the legs off with your fingers. So bring a good pair along. Once the legs are off, place the hook point into the first leg socket and bring it out through the third or fourth socket. Some fishermen keep the point of the hook hidden and this worked best for me. If you hook the crab this way it won't be stolen as often by the bergalls and you will then have a chance to catch more blackfish.

The best kept secret about the blackfish is their tastiness. You won't believe how good they taste until you try some for yourself. Oh sure, all the veteran tog fishermen know how great these fish are. But I've asked quite a few summertime fishermen if they've ever tasted one. More than a few said no.

A friend of mine did a wonderful job cooking the fish I caught on the Big Mohawk II. Here's a quick way to prepare these flavorful fish for your tastebuds:

Place fillets in oven on tin foil; cover with butter and lightly salt and pepper, then add a dash of garlic powder, Natural Choice fish seasoning and Goya all-purpose seasoning. Keep in oven for 10 to 12 minutes at 350 degrees.

The blackfish are out there now, ready to battle. So don't miss a chance to go out and tangle with these bullheaded fighters. Catching any blackfish is fun, but once you've tasted one you will be hard put to keep the secret of the blackfish to yourself. Delicious.

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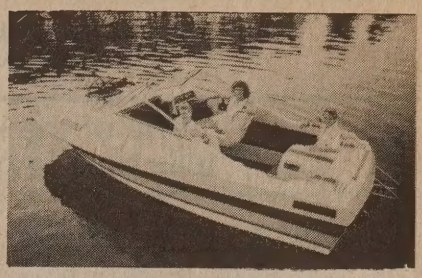

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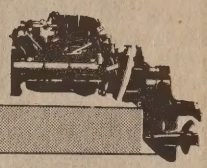

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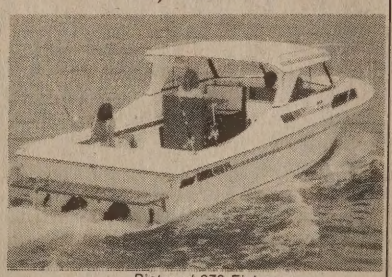

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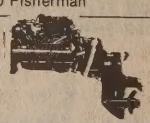

FISHING FOR SHARKS

BY PETE BARRETT

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Sharks — Awesome, powerful, fast and graceful. FISHING FOR SHARKS offers a complete guide to veteran shark anglers and newcomers just bitten by "shark fever".

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OUTDOOR PHOTOGRAPHY

by Boyd Pfeiffer

One of the nation's better outdoor photographers tells how to get the most out of your fishing photos.

Photography is a hobby enjoyed by millions, and serves as a "memory bank" to preserve all those good times with family and friends, vacations and parties, hobbies and interests. Fishing photography fits right in with all that, helping us to remember and later enjoy and laugh over, the high jinks of fishing partners, the good times on special trips, the trophy fish or special catches that highlight each season.

Unfortunately, what we think we see through the camera viewfinder and what we actually take and later slip into an album (or throw into the trash can) is seldom the same thing. As a result, outdoor and fishing photography is seldom the joy and satisfaction that it should be, despite the fact that cameras are getting simpler and easier to use, and more and more anglers are taking cameras on all their fishing trips.

This brings up one of the most important points about photography—any photography. Many people think that photography is mechanical and equipment oriented. It is the same argument that if you get a better fishing rod or reel, or buy a new lure it will make you a better fisherman. It might improve your basic opportunities, but it won't change your basic fishing skill. The same thing applies to photography. Different cameras do different things and maybe have different options, but photography is really mental and visual. The camera—just like the fishing rod, or a drill press or wood chisel—is just the tool that lets you accomplish a given task.

Any camera will work well. What you choose or use will not affect results, although more experienced and accomplished photographers will want a single lens reflex that will allow lens interchangeability for different types of shots. The so-called "point and shoot" cameras with models by Nikon, Minolta, Canon, Pentax, Vivitar and other major manufacturers are great for simple grab shots since most of them are auto everything (auto film loading, auto film advance, auto exposure, auto focusing, auto flash, auto film rewind, etc.). Many even have adjustable lenses (short wide angle to short telephoto) and are waterproof or water resistant—ideal for use while fishing and boating. The water resistant models are great for fishermen, since rain, slight spray or shallow dunkings will not hurt them.

Many photographers get heavily involved with equipment and gadgets, something that has nothing to do with good photography. Good photography and good photographs involve contrast, composition and lighting. While the gadgetry and equipment of photography can be fun and an end to itself, excellent photography can be

Wide angle lenses are best for boat shots.

done with simple cameras with no extra lenses, filters or equipment. In fact, George Harrison, one of our great outdoor and bird/wildlife photograhers carries a Nikon One Touch with him everywhere he goes and claims that the results are excellent, almost comparable to those with his more advanced 35 mm SLRs.

If you do have an interchangeable lens 35 mm camera, lenses should be chosen for the type of photography that interests you. For boating photography, your second lens should be a 28 mm wide angle. It won't cause distortion, but is wide enough to allow you to photograph the boat, a fellow angler landing his/her catch, and get other boat activity. I strongly recommend that the first lens for any photography should be a macro Normal 50 mm lens that will cost slightly more than the regular normal lens, but will allow close-up photos to approximately one-half life size for detail shots of fish, tackle, nature, etc. For long shots of big game fish, a telephoto is mandatory, with a 200 mm about the best in terms of cost, ease of handling and magnification.

Many lenses today have a macro setting that will allow focusing up close to get detail shots of lures, the head of a fish, a sea shell that is particularly beautiful. Lacking these lenses, you can get special macro lenses (usually in the normal focal length lens of 50 mm) or add close-up lenses described as plus 1, plus 2, etc., that are inexpensive and screw into the main lens like a filter.

But the single most important thing for good fishing photography is in how you see and how you choose those subjects that you wish to record.

The single most glaring fault of most photos is the lack of a clear subject. A shot of a shoreline is not really a suitable subject unless it includes some reference such as a surf fisherman, a dock, fishing boat, surf washing over a jetty, etc. Avoid bland, blah photos by asking yourself "What do I really want to photograph? Why is this photo important? Will others understand it or like it on its own merits without any explanation?" If you have a good answer for all these, you will probably take a good photo.

Many photos of specific subjects are taken much too far away from the subject. I almost think that many photographers are afraid to get close enough to people to fill the frame of the photo with the subject. Look at old photos in your album, especially those of friends holding fish or stringers, groups of friends cavorting for the camera, posing in front of a boat or surf buggy, etc. See how much of the photograph you could cut away without affecting the main subject you wanted to remember.

Is the photo you wish to take one that would show best as a vertical or horizontal? Most cameras, and all 35 mm cameras have rectangular film. Horizontal is best for seaside scenes,

(Continued on next page.)

Be prepared for over-the-shoulder shots.

The worst possible type of "fishing" photo.

Set exposure to water or sky for silhouettes.

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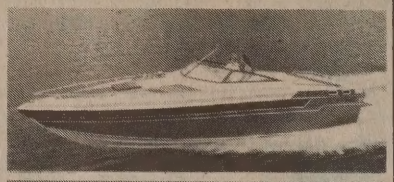

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groups of friends, any photo where the width of the subject is greater than the height. Vertical photos are best for a single subject with a fish, mountain views, lighthouses, shots of friends in a tuna tower taken from the deck of a boat, etc.

Make sure that your subjects are doing something. A photo of a friend standing with a slightly silly expression on his face and holding a trophy is not nearly as interesting as a photo of the same friend removing the hook from the fish, landing the fish with net or gaff, struggling to fight the fish closer to the boat, setting the hook on a surf hooked lunker, picking a lure from a tackle box. The key is the implied action in the photo that gives it more meaning and makes it more interesting to all viewers.

Use lighting effectively. Most truly great photographers and professionals use light to create a mood or to accentuate the composition of the photo. Most photos are taken with front lighting; that is, light that comes from our (photographer's) back or over our shoulder to give direct light to the subject. This is the least flattering light for the subject and tends to wash out colors in color photography. It also creates strong shadows under the face, since most fishermen wear billed caps for protection against the sun (another problem that we will address shortly).

Side lighting that comes from the side of the subject will outline the body or shape of the subject. Back lighting comes from the back of the subject and will paint a rim of light all around the subject for a very effective shot. How you shoot this is usually simple. Many cameras (refer to your camera manual) will have controls that adjust for these conditions. If they don't, and if you have manual control, a simple solution is to open up one f-stop for the side lighting and two f-stops for the back lighting. This will provide enough light for the shadowed areas and give you a fine, professional style photo.

Coping with shadows around the face and under hats and caps is another problem, particularly since many of us take our photos during the summer when the sun is high and from mid morning to mid afternoon when the sun is harshest and least complimentary. A simple solution when front lighting is to have your subjects slightly tilt up any caps or hats to provide more light in their face.

Another is to use a flash unit to light the face, using a technique similar to that called "fill flash" by professionals that partially lights the face to bring out detail. A third alternative is to have a friend use a light colored board or reflector to bounce sunlight into the face to lighten it. Professionals use special collapsible reflectors like this such as the Flex Fill, which provides a round white reflector yet folds into a flat package, one-third the size of the reflector by collapsing it like a band saw.

SEE IT FOR LESS

AT THE 1987

BOAT SHOW

Sevylor® **INFLATABLES**

COMPLETE PACKAGE

SEVYMARINE

310 10'4" RUNABOUT®

w/ CRUISE & CARRY

2.7 HP MOTOR

- 3 Separate air chambers plus inflatable keel.
- H.P. Rating: 10 hp.
- Capacity: 935 lbs.
- Boat Weight: 87 lbs.
- L.O.A.: 10'x 4", Beam: 5'

The Sevymarine Runabouts new for 1987 are made of a new type of material called Polytex, a special PVC reinforced with woven Polyester fabric. This boat is equipped with rigid sectional marine plywood floor with newly designed rippled, non skid surface, separately inflated keels, spray deck with windshield, built in wooden transom with metal motor plate, and self drain with plug.

SHOW SPECIAL $895

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BONUS FREE PUMP & OARS SHOW SPECIAL

310 RUNABOUT ONLY

- 3 Separate air chambers plus inflatable keel
- H.P. Rating: 10 hp.
- Capacity: 935 lbs.
- Boat Weight: 87 lbs.
- L.O.A: 10'x 4",Beam: 5'

These boats are also equipped with pressure release valves,
** patented swivel oarlocks, bow handles, 2 grab lines and maintenance kit.

SHOW SPECIAL $549*

REG. $799

* Seat Not Included

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Sevylor®

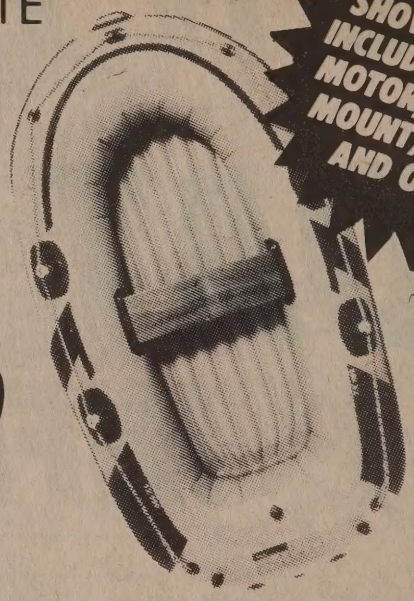
TX260 CARAVELLE

TX260 COMPLETE PACKAGE

W/CRUISE & CARRY
1.5 HP MOTOR

- Four exclusive patented** Sevylor swivel oarlocks
- H.P. Rating: 3 hp.
- Capacity: 650 lbs. (3 adults, one child)
- Boat weight: 26 lbs.
- L.O.A: 8'6"
- BEAM: 5'

SHOW SPECIAL INCLUDES 1.5 HP. MOTOR, MOTOR MOUNT, PUMP AND OARS.



The TX260 & TX320 Caravelles on this page feature the famous "DIN Safety Chamber." They come equipped with a heavy duty grab line, 4 swivel oarlocks, pressure release valves, maintenance kit and wooden bench seat.

SHOW SPECIAL REG. $729

$489

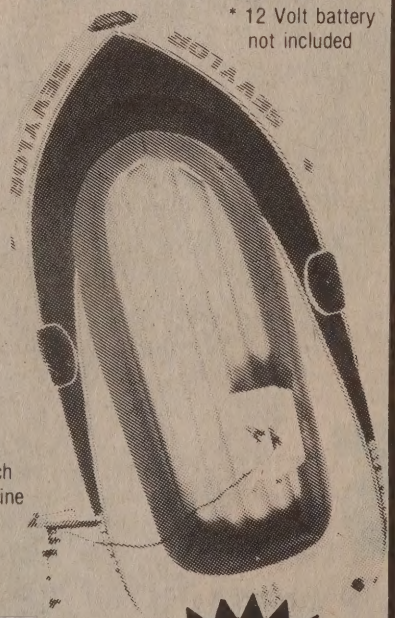
TX260 ONLY
REG. $249

SHOW SPECIAL $199

T260M TRAWLER

BOAT / MOTOR COMBO

* 12 Volt battery not included



- Three person
- Capacity: 650 lbs. maximum
- Boat & Motor Wt. 20 lbs. 4 oz.
- Four separate air chambers
- Heavy duty PVC construction
- 2 exclusive patented Sevylor molded oarlocks
- One special battery pouch
- All around Dacron grab line
- Maintenance kit

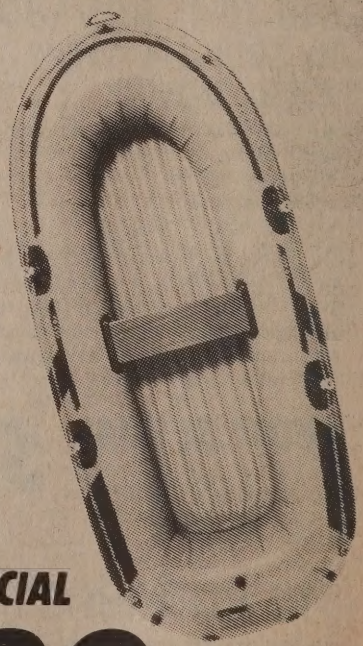
REG. $149

SHOW SPECIAL

$109

BONUS FREE PUMP & OARS SHOW SPECIAL

TX320 CARAVELLE



- Four exclusive patented** Sevylor swivel oarlocks
- H.P. Rating: 3½ hp.
- Capacity: 900 lbs (4 people)
- Boat Weight: 31 lbs.
- L.O.A: 10'6"
- Beam: 5'

REG. $299

SHOW SPECIAL

$239

** U.S. PATENT 835192

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Sevylor

SEVYMARINE

340 11'2" RUNABOUT®

SHOW SPECIAL FREE PUMP & OARS

- 3 Separate air chambers
- H.P.Rating: 15 hp.
- Capacity: 1100 lbs.
- Boat Weight: 90 lbs.
- L.O.A: 11'2"
- Beam: 5'2"

The Sevymarine Runabouts **new** for 1987 are made of a new type of material called **polytex**, a special PVC reinforced with woven Polyester fabric. This boat is equipped with rigid sectional marine plywood floor with newly designed rippled, non skid surface, separately inflated keels, spray deck with windshield, built in wooden transom with metal motor plate, and self drain with plug.

REG. $949

SHOW SPECIAL $699

*Seat not included

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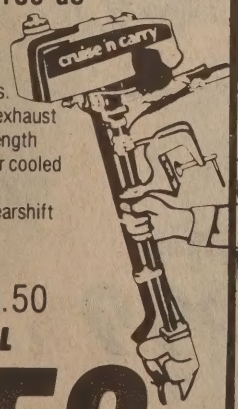
All the small outboard you need.

1.5 H.P. The 12-Lb. Outboard

SUPER LIGHTWEIGHT MOTOR "GOES WHERE YOU GO"



- Weighs only 12 lbs.
- Quiet underwater exhaust
- Adjustable shaft length
- Powerful 1.5 HP. air cooled engine
- Neutral to drive gearshift plus much more

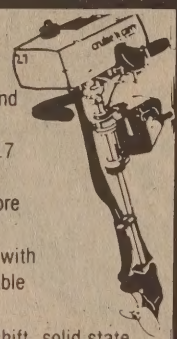
Model # 6600

REG. $349.50

SHOW SPECIAL

$259

2.7 H.P.



- Combination carrying and reverse steering handle
- Increased horsepower-2.7 at 8000 rpm
- 3 bladed prop for more speed and thrust
- Double transom clamps with tilt up lock and adjustable friction steering

Plus positive action gear shift, solid state ignition and quality construction throughout. Ideal for fishing boats, sailboats, canoes, dinghies and inflatables.

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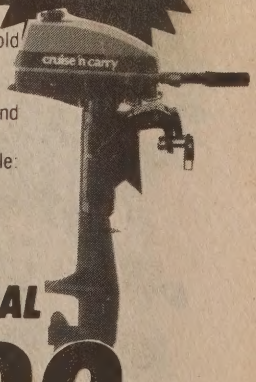
6 H.P.

NEW 87' MODEL!



- Solid state ignition for easier starting
- Fully water cooled for cold and warm starting
- Forward-to-Neutral gear shift for better control and handling
- Long shaft model available: ideal for sailboats

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Sevylor SEVYLOR SPORT TUBES

ST 2000
THE SKI BISCUIT
MORE FUN THAN WATER SKIING
TOW BEHIND BOAT-PERFECT
FOR THE ENTIRE FAMILY!

56" diameter 2 chambers, equipped with special gusset with two lap seams for added strength, heavy duty nylon cover with self bailer and nylon two bridle with handles.

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ST3000 SKI BOB
IDEAL FUN FOR THE ENTIRE FAMILY

- Can be towed behind boat
- 2 person, 500 lb capacity
- Heavy duty PVC construction
- 3 separate air chambers
- 2 safety valves
- 2 padded foam seats
- 1 nylon tow bridle
- 2 easy grip handles
- 2 molded speed handles
- 1 boarding stirrup
- Size: 81" x 35½"
- Weight: 10 lbs

REG. $99.99

SHOW SPECIAL

$59.99

ST1000
SKI TUBE

- 2 chambers
- Special PVC construction
- Equipped with special gusset with two lap seams for added seam strength
- 2 handles and nylon tow strap

REG. $44.99

SHOW SPECIAL

$29.99

KNEE BOARD

ST4000

- Heavy duty I-Beam construction
- 2 Fins
- Foam knee pad of special PVC
- 2 stiffeners
- Adjustable nylon strap with buckle and Velcro

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SHOW SPECIAL

$39.99

Patent Pending. Sevylor Design Copyright April 1985

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Sevylor KAYAKS

K79

- Capacity: 360 lbs.
- Boat Weight: 23 lbs.
- Length: 10' 8"
- 3 Separate main air chambers
- 2 Adjustable inflatable seats
- 2 Spray covers
- 2 Boston valves
- Sevytest Inflation Gauge

Recommended accessories: #64, #74, #94, #240 or #304, 12 volt inflator and AK. The special tubular I-beam floor construction gives these kayaks additional rigidity, stability and maneuverability.

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TX 390

Two Person Sevytex "Kaynoe" Canoe

- 3 separate main air chambers
- 2 adjustable inflatable seats for kayaking and bow and stern covers
- 2 directional strakes
- Capacity: 650 lbs.
- Length: 12' 10"
  Boat Weight: 42 lbs.

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BONUS FREE PADDLES & PUMP

CARAVELLES

KK54 KIT

- Capacity: 360 lbs.
- K54 Boat Weight: 9¼ lbs
- KK54 Boat Weight: 12 lbs.
- Length: 6'6½"
  KK54 Bonus:
  SGM & #4 included

PUMP & OARS INCLUDED

REG. $46.95

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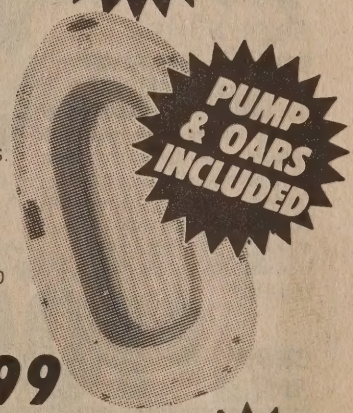
BOAT ONLY **$27.99**

KK64 KIT



- Capacity: 600 lbs.
- KK64 Boat Weight: 16⅞ lbs.
- H.P. Rating: 2 hp.
- Length: 7' 10"
  KK64 Bonus:
  #4 oars and SGM foot pump

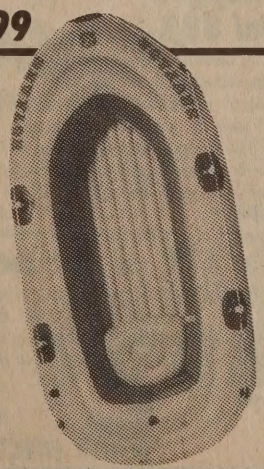
PUMP & OARS INCLUDED

REG. $69.95

SHOW SPECIAL $49.99

BOAT ONLY **$39.99**

K 76



- Capacity: 650 lbs.
- Boat Weight: 23 lbs
- H.P. Rating: 3 hp.
- Length: 8' 1"
  1H8 Cushion

REG. $99.95

SHOW SPECIAL

$74.99

XR86GT

- Capacity: 700 lbs.
- Boat Weight: 26¾ lbs
- H.P. Rating: 3 hp
- Length: 9' 4" 1 Cushion

SUPER CARAVELLE

These Super Caravelles are made of heavier gauge special PVC. They have two newly designed water line bustles which create a special tunnel effect.

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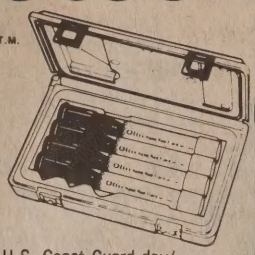
Olin™ LOCATER® Marine Signal Kit



- Meets minimum U.S. Coast Guard day/night requirements
- 2-minute burn time, 500 candle power
- Colorful label with illustrated instructions for fast, easy use
- Watertight carry/storage case floats full loaded
- Built-in hand grip for carrying ease
- Compliance seal included
- Ship weight 5lbs.

Reg. $24.42

SHOW SPECIAL $14.95

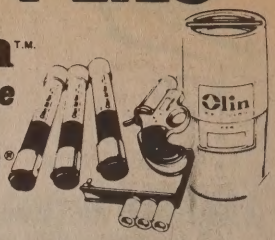
Olin™ ALERTER® Marine Signal Kit

- Meets U.S. Coast Guard day/night requirements
- Convenient bandolier with 3 red meteors plus space for 3 or more.
- 6-second burn time, 250' altitude, 10,000 candlepower magnitude.
- Watertight carry/storage case floats fully loaded.
- Built-in hand grip for carrying ease.
- Compact for easy storage.
- Compliance Seal included. Ship weight 5 lbs.

Reg. $31.64

SHOW SPECIAL $19.95

Olin™ 12 Gauge ALERT LOCATER® Kit



- Meets all Coast Guard day/night requirements plus the added protection of 3 hand-held red flares. Canister will float fully loaded. Includes:
- 12-gauge launcher with bandolier
- 3 12-gauge meteor flares
- 3 hand-held red flares
- Watertight, floatable canister with storage space for extra signals
- Compliance Seal included Ship weight 6lbs.

Reg. $47.75

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rule BILGE PUMPS

Model 25

MAKE IT A RULE TO GET THE BEST!

Rule submersible bilge pumps have set the standard for the industry for many years and are the first choice of yachtsmen and commercial fisherman throughout the world. More innovations in bilge pump design have come from Rule industries than any other manufacturer.

Larger Sizes Available

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Fulton Trailer Jack

500lbs capacity in a fast acting easy to crank jack. Self locking worm gear holds jack at desired level. Lift to 24" from ground to top of trailer tongue with 17" of gear travel. Zinc plated finish resists rust and scratches. Large 6" polycarbonate wheel for easy maneuvering Ship weight 18lbs. Stock #1800650

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Outboard Gas Tank by Mirax

6 Gallon Capacity
Heavy Duty
Plastic Construction Convenient
Carry Handle. Ship weight 5lbs

Fitting Extra

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Airguide Compass Savings

The Ever Popular

Model 66 Mount Anywhere Compass

Sports styling, popular direct card reading. Cycolac case and bold anodized aluminum bracket for weather resistance. Movable sunshade, jeweled movement. Installs atop a deck or console, on face of dash or bulkhead. Red illumination, internal compensators. Nonglare finish. 4¼" wide 5¼" high Available in black or white.

Please specify when ordering.

Ship weight 4lbs.

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66W

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The Rugged Model 88B

Heavy duty diecast metal casting. Contra spin jeweled movement with aircraft type compensators. Has a direct reading dome type card ideal for large and small boats-power or sail. Compass can swing free in bracket or be locked in any position. illuminated. 4⅝" high, 3⅜" dia.

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SHOW SPECIAL $38.95

Model 57B THE LITTLE COMPASS THAT DOES A BIG JOB!

Direct reading dome-type card for easy visibility Removes easily from bracket for storage. Built-in compensators. Compass and bracket both finished in matte black. Measures only 3⅜" wide and 3¼" high. Ship weight 1lb.

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SHOW SPECIAL $16.99

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The Famous Stearn's Pee Wee Vest by Stearns Life Jacket for 5-9 year olds

A specially designed vest for children 2-9 years. U.S. Coast Guard approved. Closed cell foam insulation/floation, won't mildew or waterlog. Non-rusting front zipper, quick drying. Adjustable at sides, between leg strap prevents ride up.
Ship weight 4lbs.

Reg. $32.18

SHOW SPECIAL

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Stock #- Color Coded to Age Group
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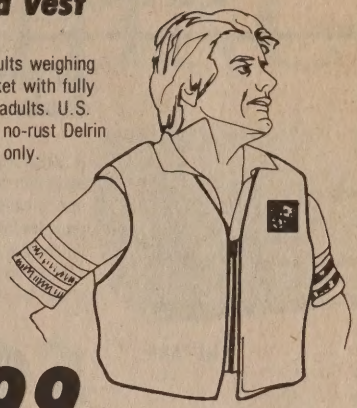

A universal sized vest for adults weighing over 90lbs. This is a full jacket with fully expandable sides to fit most adults. U.S. Coast Guard approved. Front no-rust Delrin zipper. High-visability yellow only.

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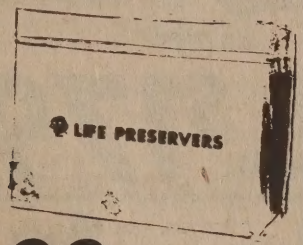
White vinyl fabric packed case with plastic zipper and handles. Holds up to 6 AK1 life jackets. Red lettering identifies bag. Coast Guard requires life jackets to be in like-new condition and readily accessible-this bag is the answer. Ship weight 1lb.

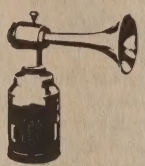
Reg. $19.95



SHOW SPECIAL

$9.88

Signal Tone Hand Held Horn



Gives loud clear signals, attracts attention in an emergency - also used for bridge signals. Complete with 14 oz. freon canister and trumpet head with non-leak valve.
Ship weight 2lbs.

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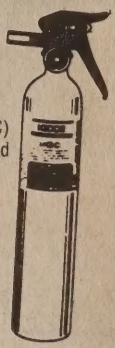
Kiddie Mariner 10B:C Fire Extinguisher



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Ship weight 6lbs.

Reg. $17.95

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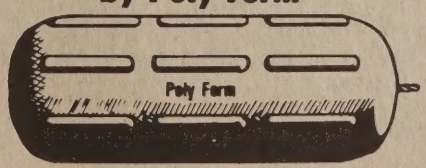
Ship weight 4lbs.

Size	Reg.
Adult over 90lbs.	$11.15
Children medium 50-90lbs.	$10.80
Child small 30-50lbs.	$10.50

SHOW SPECIAL

$5.88

H-T-M Boat Fenders by Poly Form



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Size	Reg.	SHOW SPECIAL
6 x 15	$29.35	$15.99
8 x 20	$43.65	$24.99
10 x 26	$69.95	$36.99

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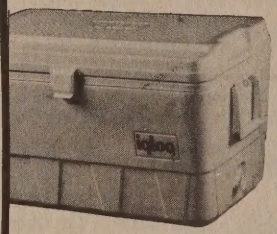
Model No. 61-046: 25⅞"x15"x15⅜"

List $48.89

SHOW SPECIAL $29.95

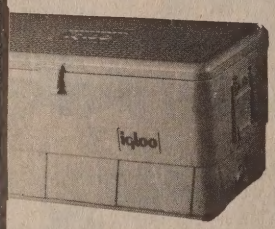


68 Quart Cooler

"Treasure" chest-big enough to handle a weekend! Included sturdy removeable food tray and snap-lock safety latch. The new comfort-grip handles make it easy to carry and the sturdy foam insulated lid doubles as a seat.
Model No. 786-046: 29½"x16½"x16½"

List $79.49

SHOW SPECIAL $48.95

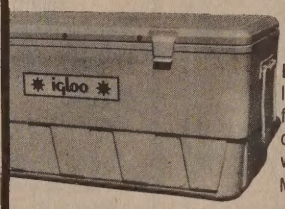


86 Quart Cooler

Rugged, portable refrigerator that will go anywhere. Comes with a deep food tray. ABS liner is easy to clean, resists odors and stains. Extended handles make it easy to carry. Hinges and latch have been strengthened for longer life.
Model No. 860-046: 33½"x16"x16¼"

List $116.49

SHOW SPECIAL $69.95



151 Quart Cooler

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DRESS RIGHT FOR WINTER FISHING

by Stew Lilker

By the time you read this article the winter fishing season should be in full swing. Many anglers miss out on some of the best fishing and tastiest fish of the year while sitting, glued to their television sets, watching Saturday and Sunday afternoon football, basketball and hockey. Why? They say it's too cold out there. Nonsense! With a little common sense and an understanding of what makes you cold, you can learn to dress warm and be ready to cash in on some of the best fishing of the year.

The first thing to remember when heading out on a winter fishing trip is that you are not trying to win a beauty contest. Leave your grandfather's old buffalo coat and your wife's mink coat at home. The army has found that a man can keep warm in temperatures down to 65 degrees below zero wearing only three pounds of clothing. How do they do it? By dressing smart.

Dressing smart means dressing for warmth, not weight. The weight of your clothing is not a factor in keeping you warm. Trapped still air is an excellent insulator and it is the ability of what you wear to trap this still layer of air that is going to keep you warm. Remember, it is much better to dress with a number of lighter garments, than one heavy one.

Now, let's get down to the business of keeping warm. If money is no object and you have in the neighborhood of $200 laying around, then by all means go to one of the marine supply houses and invest in a full suit of the new synthetic thermals. They will keep you warm, but you will pay for it. Until the price of these space age fabrics comes down, there is an alternative way to keep yourself comfortable. I have been doing it for years and it works. An added plus is that you probably have most of these garments already. If you don't, you should be able to purchase them reasonably and have plenty of money left over to go fishing.

What should you be wearing to keep yourself warm on that winter fishing expedition? I start out with a pair of cotton long johns. I wear these long johns not only for their warmth, but also for their ability to absorb perspiration. It is very important that you make some provision to absorb your perspiration, because it is this moisture that will eventually chill you. An added free bonus of wearing cotton long johns is that they are really comfortable against your skin.

Dressing in layers eliminates the need for bulky clothing. Watch caps do a good job of retaining body heat.

Following the principle that it is better to dress in a number of lighter layers, than one heavy one, the next item I put on over my cotton long johns are a set of circular knit insulated underwear. If you don't already own a pair and are buying these for the first time, make sure you buy them at least one size larger than your normal size. Regardless of what it says on the label, in the wash these garments shrink a lot. There is nothing worse at three o'clock in the morning than finding that your only pair of thermals will only fit if you suddenly lose 50 pounds and shrink six inches.

On my upper body, after the long johns and the long sleeve thermal undershirt, I put on a hooded thermal sweat shirt that has pockets and a front zipper. Over this, I wear an insulated thermal vest, which also has pockets. Finally comes my jacket, which is wind proof and insulated with dacron 88. Although it's on its last legs, my jacket has seen me

(Continued on next page.)

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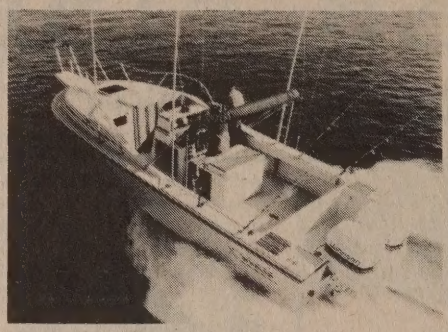

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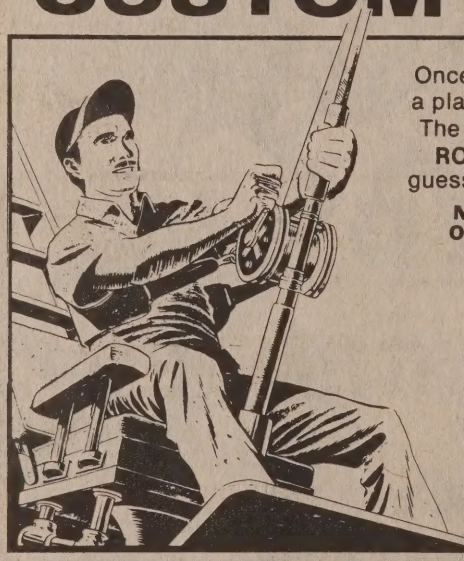

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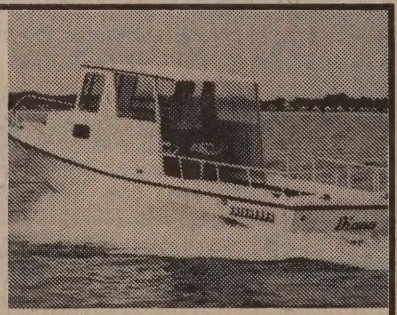

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through about eight fishing seasons. Dacron 88 does not seem to be available any more. The new wonder insulation material now seems to be Thinsulate. People who have used this insulating material have given it glowing reports.

To keep my legs warm, after the long johns and the circular knit thermals, I put on a pair of dungarees. If it is really cold, I put on a pair of quilted thermals before my dungarees.

Remember, the purpose of layering your clothing is to trap air. It is these layers of trapped still air that are going to keep you warm. With this in mind, it is simple to see that your clothes must fit loosely. If they are tight and binding, not only will you feel uncomfortable, you will defeat the insulating qualities of your clothing and cut off your circulation at the same time, making you even colder.

What about goose down? In my opinion, as well as many others, goose down is still the most efficient insulator around, although the new synthetics sure give it a run for the money. For the conditions that one is likely to encounter on our waters, today's synthetics will keep you warm. And for the price of a good goose down jacket, one can almost completely outfit himself for cold weather fishing using other garments. If you have money to spare and goose down is your thing, beware. Down jackets are quite popular and many manufacturers are stuffing their garments with duck down, which is only half as an efficient insulator as goose down. Read your labels and don't be fooled by pictures of a flock of geese hanging on a tag from the sleeve of a garment. A label that just reads "down" most likely isn't goose. It might even be chicken down (do you ever wonder what happens to all of Frank Perdue's chicken feathers) and who wants to go out in the middle of winter dressed in a bunch of chicken feathers?

No matter how warmly you are dressed, if you are not wind and waterproofed, you are likely to freeze to death. A temperature of 30 degrees above zero with a freezing wind-driven rain is more to be feared than a windless day of 30 below zero. Wind and rain will rob most insulators of their effectiveness! It is really quite simple to insulate yourself from the ravages of wind and rain. Wear a set of top quality foul weather gear. Don't rely on those $9.95 bargain suits. Invest in that top quality set of commercial duty "skins." With just a moderate amount of care they will last a lifetime and some manufacturers will even guarantee them for that. I use a hooded foul weather jacket with snaps in the front. The hood keeps the rain off my head and the wind off my neck. If I find myself getting too warm I can always undo a couple of snaps to get a bit of air circulating. I generally don't wear my foul weather overalls unless the wind is really howling or

it's raining. But for those of you who get cold no matter what you seem to wear, you will be pleasantly surprised at how much warmer you will be if you keep your overalls on.

The old-timer who said, "If your feet are cold, put on your hat," knew what he was talking about. Hats are not optional in cold weather! Because the brain is a vital organ (in most of us), the blood vessels in your head and neck do not constrict to conserve heat, as they do in your extremities. On a cold day, you can easily lose 50 percent of the heat your body produces from your head. During the winter, whether fishing or not, I always wear a woolen ski cap outdoors. The beauty of the ski cap is that if your ears get cold, you can always pull it down over them. The thermal hood on my sweat shirt and the wind and waterproof hood on my foul weather gear will protect my neck and head while giving me the flexibility to deal with extreme cold, wind, freezing rain or snow.

Once your feet are cold or damp, you are going to be uncomfortable no matter how efficiently you are dressed. A pair of loafers or sneakers don't belong on your feet on a winter fishing trip! A good pair of insulated waterproof boots with a heavy pair of wool socks should keep your feet warm. The trouble with these top quality boots is that while they are quite effective at keeping your feet warm, they are also quite expensive. I have found that a pair of snowmobile boots (a wind and water proof outer boot into which fits a felt liner) will keep my feet as warm as toast and save me half to two-thirds the price of a good pair of insulated boots. Here, as with the rest of my other clothing, I apply the layer principle. I start with a pair of cotton socks to absorb perspiration. Then I put on a pair of wool socks, over which go the left liners and then the wind and water proof outer boots. Your boots, like the rest of your clothes should fit loosely, without binding. Don't make the mistake of buying a pair of bargain thermal boots. All the ones I've seen are cut too narrow and will cut off the circulation in your feet. Once this occurs, your feet aren't going to warm up no matter how many pairs of socks you have on.

Keeping your hands warm is not the easiest thing in the world to accomplish, while fishing in the winter. I've found the five fingered gloves to be the least satisfactory of all. They leave your fingers standing alone, out in the breeze like five cooling fins. Over the years, the best that I have been able to come up with is the three-fingered, foam insulated rubber mitten. I generally use these with thermal liners and they do a pretty good job of keeping my hands warm in the coldest weather. The three finger configuration gives me enough dexterity to bait my hook without removing my gloves. Unfortunately, for most tangles your bare hands will be the only way out. I always bring along a couple of pairs of extra liners and am thus assured of having dry hands.

The time to make sure that everything fits and that your zippers zip and your snaps snap is in the store, not on the fishing grounds. A zipper or snap that doesn't function properly in the store isn't suddenly going to repair itself when subjected to freezing temperatures in the middle of the ocean. If your clothes are binding and tight in the try-on room, they are not going to mysteriously loosen up when reeling up a codfish. Do yourself a favor. Make sure that everything fits and works properly before you're five miles offshore.

My jacket, hooded thermal sweat shirt and thermal vest all have pockets and zippers for good reason. The pockets are great for storing things like sinkers, cigarettes, matches, and candy bars. The zippers allow me to ventilate myself if I feel I'm getting too warm and also allow me to get comfortable in a hurry, if I go into the cabin for awhile.

By dressing for warmth and not weight, and by dressing loosely and in layers, you don't have to break the bank to keep yourself warm on a winter fishing trip. Now is the time to remove yourself from in front of the tube, dress smart, and cash in on some of the best fishing and tastiest fish of the year.

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OUTBOARDS FOR 1987

Part Three — *by John Raguso*

Now that we've seen the best that America has to offer concerning outboard motors, let's focus our attention to the Far East. There's a tidal wave of technology brewing in Japan and this invasion from the Orient is accelerating the competitive climate, bringing more reliable products to U.S. consumers at reasonable prices. The industry has seen more significant improvements in the last three years than in the last three decades! Oil injection, extended warranties, V-8 outboards and now Jet Drive. You can thank the Japanese either directly or indirectly for making all these wonderful things happen. Like it or not, they are going to force the OMCs and Mercurys to keep pace with their game plan and we're either going to beat them or lose out, but isn't that the American way? Make your best product, communicate its qualities to the marketplace, and let the public decide what's best for them.

Economic lessons aside, let's take a peek at what's new from across the Pacific.

Yamaha: Unquestionably the leader of the banzai charge is this aggressive organization, whose marketing headquarters is domiciled in Cypress, California. They got a foot in the door a few years ago by manufacturing some of the smaller motors in the Mariner line-up for the Mercury organization. Nowadays they're making big waves on their own.

New for this year are a bunch of innovative models, including a line of Jet Drive outboards, a high performance Pro 50, a 3-cylinder oil-injectd 30 hp mid range, and the revised 225 hp V6 Excel, their most powerful engine.

Leading off with the Jet Drives, Yamaha is the first manufacturer to offer this feature as a regular model. Previously, boaters who wanted jet drive benefits were forced to purchase a unit separately and convert their conventional outboards over to this system, frequently voiding the original warranty. Jet Drive is available in 40, 50 and 90 hp 3-cylinder models, a 115 hp V4 and a 200 hp V6. All include a one year commercial warranty with the engine.

Propelled by a jet stream of water instead of a propeller, Yamaha's Jet Drives are designed to run in shallow water, where prop driven boats have feared to tread. The Jet Drives offer the same features as the rest of the full line of Yama-horses: extensive corrosion protection, Precision Blend oil injection, CB ignition, pulse-tuned exhaust and the economy of loop-charging. Power trim and tilt is standard from the 90 on up and all feature low oil level, overheat and over-rev protection.

The Jet Drive operates by drawing raw water through the intake grill by a crankshaft driven impeller. High pressure forces water through a nozzle directed astern to create forward propulsion, similar to the way a jet engine compresses air for its thrust. When the boat reaches planing speed, only the intake grill is below the hull. To provide reverse propulsion, a cup is swung over the jet stream, channeling the water away from the direction of motion. Conventional controls are used for throttle, shifting and steering.

Norm Phillips of Salt Water Sportsman recently tested some of the Yamaha Jet Drives and found them to be slightly less efficient than their prop-equipped counterparts, although Yamaha engineers claim that this performance gap is about 25 percent in favor of the standard propeller power plants. The weight of one style of engine compared to the other shows miminal difference, and there are certainly less moving parts on the Jet Drive, inferring that there is less to go wrong. In some cases, the Jet Drive unit can be retrofitted to an older Yamaha outboard; so check with your dealer. As a final thought on this topic, you may have some difficulty rigging a Jet Drive on your transom. They require a mounting height 5 to 7 inches higher than conventional outboards and this may cause problems in some installations. However, you may also find out that travelling "by jet" is the best means of transportation for your boat, so give it some thought

Joining the Yamaha product line for '87 is a loop-charged 3-cylinder 30 hp outboard that brings the smoothness inherent in a three-banger down to a new level of power class. The 30.27 cubic inch powerhead is pulse-tuned for smoother running and the lowest idle speed in its horsepower

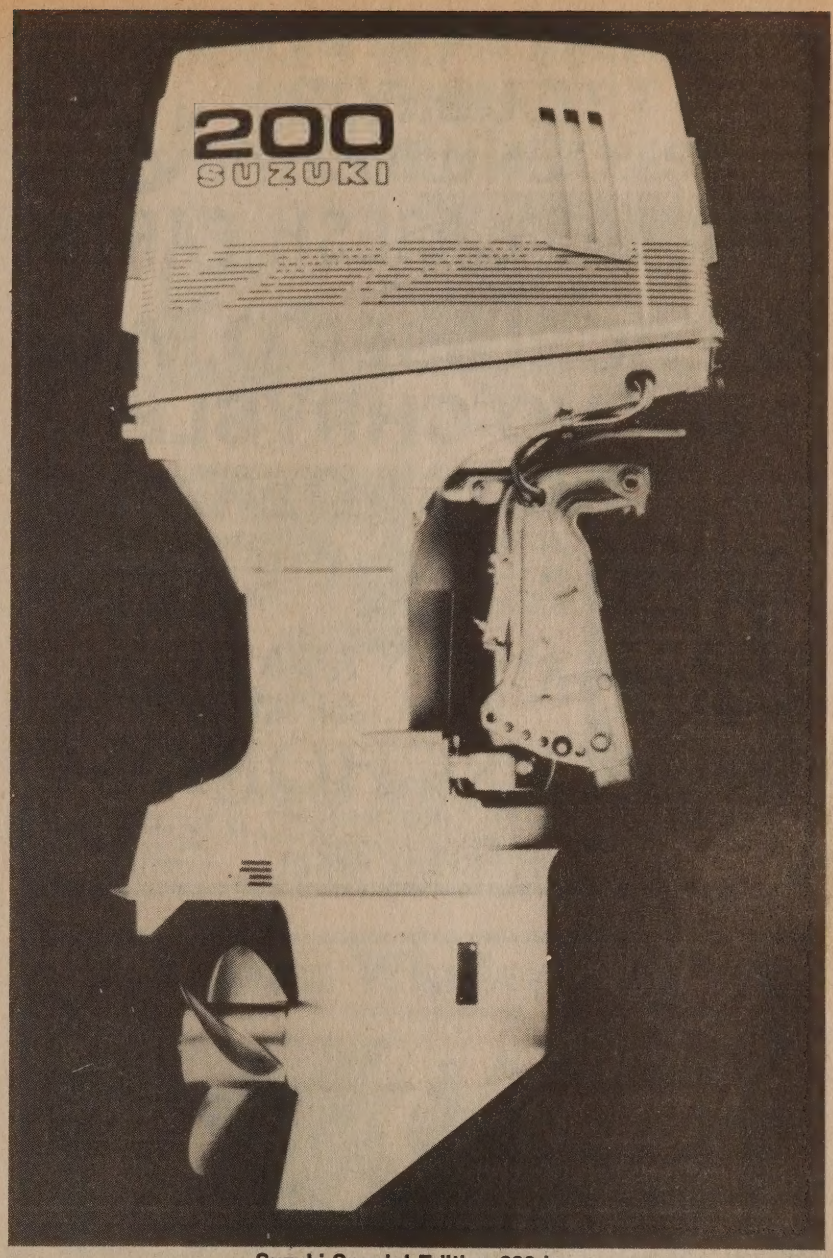
A pair of counter-rotating, 150 hp V6 Yamahas.

group. On the manual model, the shift lever has been placed at the front of the engine for easier operation. Shallow water drive is standard on the manual model and the 30 electric is shipped with a control box and S/S link arm for easy remote installation. Both engines are equipped with a self-contained .8 liter oil reservoir under the cowling.

Rounding out the major changes for this model year is the 225 hp V6 Excel, Yamaha's biggest outboard. This looper has distinctive black and gold graphics that set it apart from its brother Yamas and on the inside, it's the only one of its clan that features micro-computer control. This device monitors operating temperature, load and fuel quality, making continuous adjustments in ignition timing to ensure peak operating performance, particularly at idle. A new 8-petal reed valve design gives improved power across the operating range, and the Excel features a sleek drag-reducing gear case with lower water pick-ups, allowing higher transom mounting for improved performance.

Of course, Yamaha continues to offer its Counter Rotation Dual Engine System for this year. Available in 150 and 200 hp models, the system includes everything needed to install twin outboards, including a S/S tie bar, dual binnacle control and a dual engine switch panel complete with rigging materials. The advantage of counter-rotating outboards is a level, more comfortable ride, combined with effortless steering made possible by the left hand torque of one motor balancing the right hand torque of the other. The dual binnacle control features a single thumb switch to trim and tilt both engines simultaneously and there are also separate switches to fine tune each outboard. A single warning system sounds a buzzer and lowers the speed of both engines in the event of low oil or overheating in either motor. Unlike OMC's counter-rotating setup, Yamaha changes the rotation of its outboard in the lower unit, as opposed to OMC's mirror image engines, which makes life a lot easier when having to get parts for the powerhead. All 1987 Yamahas will run on leaded or unleaded gasoline and all have alcohol-resistant fuel lines and fuel components if gasohol is used. A two year warranty, stainless steel prop and tool kit come with each standard engine.

Suzuki: Celebrating their 10th year on American shores, the Suzuki America Corporation is starting off its second decade by going to a two-year warranty program for all outboards manufactured in 1987. According to Suzuki Marketing Manager, Bob Rudolph, "...over the past 10 years, Suzuki outboards have consistently demonstrated outstanding reliability in all types of applications; even in the most unfavorable elements. Because of that, we feel confident in extending our standard limited warranty program to two full years as an additional benefit for our many customers." With this additional year added to the basic protection package, Suzuki joins Yamaha as the only outboard manufacturers to offer the two year program as a standard feature. Their Yankee counterparts (OMC and Merc) are still going with the normal one year warranty, wtih an additional two years as an extra cost option. This "jockeying for position" on the topic of warranties is reminiscent of what the American car companies are going through as you read this article: General Motors evolved to a six year/60,000 mile warranty to become the industry leader for a few weeks, only to have that distinction reclaimed by Lee Iacocca's Chrysler Corp. who has recently announced that they're going the full measure to 7 years and 70,000 miles. Who knows, maybe the outboard manufacturers will pick up the cue and heat up the competitive warranty wars even more, thereby making the consumer the winner in the long run.



Suzuki Special Edition 200 hp.

Concentrating on new product offerings, Suzuki has introduced two new V6 outboards for 1987. Joining the trio of V6s that were first brought out in 1986, the new 175 hp and 200 hp Special round out the stable of Suzi sixes. They both enjoy the generous 164.3 cubic inch displacement and 60 degree vee configuration featured on last season's big block outboards. Like all Suzukis from the tiniest 2 hp up to the thundering 200 hp Special, the big sixes incorporate loop-charged technology for peak performance and economy. Even the casual observer will notice the revised graphics on the 200 hp Special Edition, because in lieu of the standard black and gold over silver color

(Continued on next page.)

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scheme, a rich cowl-to-skeg gold finish with black accents has been selected to celebrate the company's 10th Anniversary here. Under the hood, the 200 Special has received Suzuki's exclusive dual plug cylinder head design to optimize spark and deliver maximum combustion of the incoming fuel charge. Like all other V6s, the 200 S/E comes with Integrated Circuit electronic ignition, your choice of stanless steel prop and a 9.5 quart integral oil tank under the engine cowl.

All Suzuki outboards from 20 through 200 hp feature dual water intakes, for increased system cooling capacity and as an emergency back-up should one of the intake passages get clogged from debris. The Suzuki oil injection system is standard on all motors from 40 through 200 horsepower, and varies the oil ratio from 150:1 at idle speeds to 50:1 at full throttle. A unique sensory gauge comes equipped on all outboards from 55 hp and up, and it monitors engine oil level, oil flow, water flow, plus provides an over-rev indicator. You have a choice of colors on all engines from 75-200 hp, with a burgundy and gold over white option in place of the standard issue black and gold over silver. According to the Suzuki rep I talked to at the Cleveland Boat Show a few weeks ago, he claimed that the consumer's color preference was split about 50/50 between the two choices. No matter what shade you go for, it's what's under the hood that counts, and these folks have a bunch of innovative features to offer in that regard.

Nissan: This manufacturer, which is better known for its automobiles than its outboards, has expanded its 1987 line-up to include a range of engines from 2.5 up through 90 horsepower. New for this model year is the top-of-the-line 90 hp loop-charged three-banger. It features an oil injection system that ranges the lubrication ratio from 100:1 at lower speeds to 50:1 at full throttle. Electric start, dual water intakes, power trim and tach are standard on this mill, as are C.D. ignition and remote controls. All other Nissans are also loop-charged with twin water pick-ups, but use a 50:1 pre-mix of gas and oil that must be done tank-side.

Also new for '87 are the 50 and 60 hp 2-cylinder outboards that help fill in the mid-range power gap for this Japanese manufacturer. Most of the Nissan stable is based on a 2-cylinder format, and this includes the 70, 60, 50, 40, 30, 25, 18, 15, 9.9 and 8 hp outboards. The smaller 5, 3.5 and 2.5 horsepower motors are built on 1-cylinder blocks. All engines come equipped with standard aluminum prop, separate tank and fuel hose, vinyl engine cover and tool kit at no additional cost.

Tohatsu: This Japanese manufacturer is no stranger to coastal areas in the New York/New Jersey/Connecticut region. They have been producing reliable outboards for quite a few

years now and this season sees them introducing a top-of-the-line 90 hp looper 3-cylinder outboard. All Tohatsus feature C.D. ignition for reliable starts, loop-charged induction for peak performance and fuel economy, dual water intakes for cooling system reliability, plus a 5-layer corrosion resistant coating.

Although no one would admit it, there seems to be more than a casual similarity between the Nissan product line and that offered by Tohatsu. All the aforementioned models and features found in the Nissan review apply likewise to the Tohatsu line-up. When I compared photos and specs for the identically listed power plants, you guessed it—they were exact to the millimeter and kilogram every time. The only perceived difference was that the Nissan outboards incorporate a slightly different color scheme in their cowl graphics relative to Tohatsu. The U.S. Marketing base is different for each organization, so it appears that the Nissan/Tohatsu connection is similar to the Mercury/Mariner and Evinrude/Johnson alliances stateside.

Honda: Another familiar name to U.S. consumers due to this company's automotive accomplishments, Honda manufactures a modest line of outboards. These engines are unique in that they are 4-cycle power plants, as opposed to the usual 2-cycle mill normally associated with conventional outboard technology. Honda's four-stroke design means that their engines have a separate oiling system, so you don't have to mix or fuss with filling your gas tank or injection reservoir with oil.

Honda outboards are raw water cooled and feature a corrosion resistant interior coating to prolong engine life, as well as electronic ignition for maintenance-free performance. There are four motors in the 1987 line-up and they include a twin cylinder, OHC 9.9 hp; a 7.5 hp outboard based on the same block; a single cylinder OHV 5 hp; and a 1-cylinder air-cooled 2 hp power plant. Rumor has it that a 35 hp Honda outboard is scheduled for a late spring intro, but I couldn't get any confirmations on this date, nor could I get an indication of the power cycle format, although I'll bet this one will be a two-stroke design.

As a performance aside, noted outdoor writer Bob Stearns recently tested a pair of Oriental 150s against a Mariner 150 on identical Chris Craft 21' Scorpion hulls. The Yamaha had the fastest top speed at 41.7 MPH, followed closely by the Suzuki at 41.2 MPH and the Mariner at 40.8 MPH. However, the Mariner achieved the best fuel economy, posting 3.65 MPG at 29.7 MPH (4000 RPM) due to its smaller 122 cubic inch block, so it's apparent that the Japanese are competitive with the best American technology. No matter what outboard you decide to buy for your new rig, it certainly appears that it's a buyer's market, and getting better all the time!

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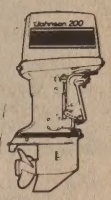

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SEASON PLANNER

by Rich Giessuebel

Fishing just seems to be getting better and better each year up at Lake Ontario. Big brown trout start the season off, closely followed by lake trout, coho salmon, landlocked salmon, and chinook salmon. As summer approaches, smallmouth bass, largemouth bass and pike fishing gets under way. Giant muskellunge become available along with tremendous amounts of panfish to include yellow perch, sheepshead, catfish, carp, sunfish, white perch and the ever present and cooperative rock bass.

As fall comes upon the scene, hordes of trout and salmon approach the beach. There, rainbow, brown and lake trout are caught along with giant chinook, coho, and landlocked salmon. As winter sets in, steelhead take over and the fishing remains just as torrid throughout the winter months. In this article, we'll take a closer look at each type of fishing available during each particular season in hopes that you'll be better able to select a time to visit the big lake and make a substantial catch of the exact species you desire.

Beginning just after ice out, the forage species called smelt move into shore where they set up shop and go about their annual spawning processes. Recognizing that there's a good meal to be had, brown trout follow the smelt inshore making the big predator readily available for land-based and boat angler alike. Many fishermen catch both species, smelt and trout, with equal zeal, as both make excellent table fare. Most rod and reel sportsmen attempt only to catch the larger of the two delicacies: the brown trout.

With a season lasting from somewhere around late March until early June, big brown trout are caught in bay and lake. Early in the season, look for best brown trout activity to come from the area of warm water discharges. These places are found at: Nine Mile Nuclear Power Plant in Mexico Bay, the Oswego Station, the R.E. Ginna Nuclear Power Plant west of Sodus Bay, at Russell Station west of the Genesee River Inlet, and at the Somerset Station east of Olcott.

As the season wears on, activity increases all along the shoreline where the browns are taken by both surf fishermen and trollers alike. Caught right off the beach, trollers often use side planer boards to pull their lures through the upper strata of water perhaps no more than 20 feet off the beach. The key to this spring fishing is to find the warmer water found along the beach. The browns and smelt will be commonly located in this water. Warm water can most easily be found near inlets where the warmer bay waters come out and mix with the colder lake waters.

Often where cold and warm waters meet, dead alewife herring get caught in a density change and float along between the two different temperatures. We refer to such happenings as a gull line, because the ever present scavenger gulls will be seen floating close to the dead herring where they're ready to feed any time they want. So, look for dead herring, or a line of floating gulls to give away the presence of warmer water.

Another warm water indicator is muddy water. After a rain, the warmer inshore water becomes muddy from stream runoff. As this warmer muddy water meets clear colder water, the two temperature different waters remain pretty much separated. Simply by trolling along such warm water indications, brown trout can be caught.

Should the big lake be ravaged by a storm, waves from 6 to 12 feet can be generated. Under such conditions, no one can feasibly fish. At times like these, anglers launch their craft into shallow water bays and rivers such as Port Bay, Sodus Bay, Little Sodus Bay, the Niagara River and the Oswego River where again they troll just like in the big lake and take good catches of trout with an occasional coho salmon mixed in. These bay fish as a rule are larger than the lake fish. Brown trout caught in bays average between 3 to 8 pounds, while browns caught in the lake more often average between 2 to 4 pounds. Now, for most anglers, a 4 pound trout is phenomenal. However, compared to Lake Ontario standards, it's a small fish.

Average brown trout in this body of water are fat. A 2 pound brown may only be 16 inches long, whereas an 8 pounder will probably stretch the tape to 24 inches. So on a normal day where you can fish some in the lake and some in the bay, you can expect to catch browns between 16 to 24 inches and 2 to 8 pounds.

As the season progresses, younger 3 to 8 pound "jack" coho, landlocked and chinook salmon, along with large rainbow and lake trout move in and join the feeding brown trout. If you want a good shot at catching a mixed bag of these species, then anticipate fishing along the shore sometime during the month of May. Although not the giants of their species, these fish are highly edible and prized by the connoisseur fisherman. Telltale gull and mud lines often produce large numbers of these related species.

When the season stretches into June, expect lake trout to take over inshore and rainbow trout to become more predominant along thermobars found well offshore. Trollers find the lakers in layers of water expressing 51 degrees, while the rainbows will be found where the colder lake water is being pushed offshore by the warmer inshore water. The spot where these two thermally different waters meet and mix is called a "thermobar."

Lake trout continue to be caught inshore in their 51 degree layer of water all summer long even when their preferred layer of water gets

down beneath 120 feet or more into the lake. Downriggers are the customary way successful fishermen bring the most cooperative pale green, split-tailed species up to the surface. However, as the summer begins, the thermobars disappear and the rainbow trout spread out well offshore where they remain close to the slowly sinking layer of cold water that they originally followed out.

During June, the muskellunge, pike and bass seasons get into full swing. The pike family species are caught around the lake in all bays and coves sporting ample water. The muskellunge take up residence in the Upper Niagara River and along the Thousand Islands' section of the lake found well to the north and east near Cape Vincent.

Anglers pursue these truly giant fish with large heavy rods and reels equipped with 20 lb. test line or more. Trolling large spoons and swimming plugs often gets the job done and the species remains rather active, although daily hours of activity may change, all summer long. With the approach of fall, look for increased catches of these two prized species along with their smaller cousin, the pickerel.

If you're interested in bass, then this lake is like dying and going to heaven. Both large and smallmouth bass can be caught all over. Fish are large and very cooperative. They are caught for the most part, smallmouths in the lake and close to shore, while the largemouths will be most likely caught in the myriad of bays and creeks found along the periphery of the big lake.

The most preferred manner to fish for the smallmouth bass is with crayfish, or in the vernacular "crabs." Hooked once through the tail, the crabs are brought along very close to, if not on, the bottom. Sometimes heavy weights are dragged along the bottom to dislodge bottom organisms much like setting up a chum slick. Once the bass have been attracted to the slick, they move in and feed heavily upon the baited crabs. At times like these, limit catches of the plentiful fish can be made.

As for largemouth, lures are the most preferred angling strategy. Surface plugs score well in the early summer, but as the water warms, spinnerbaits and diving crankbaits quickly become popular. Rubber worm fishing isn't as successful as in the south, but always worth a try.

Panfishing is conducted everywhere during the spring and summer. Catfish come in and are easily caught from bridge, boat and pier all around the lake. These fish are quickly followed in by perch and rock bass. Soon, the entire shoreline is inundated with millions of the great eating and catching fish. Often, however, these species attract little attention and a great, viable resource goes untapped. So, if you're interested in coming and fishing the lake in the summer, definitely plan to bring along the wife and kids to fish inshore, even if your plans don't include them going offshore.

Another species which may soon join the ranks as a summer species is the Skamania steelhead rainbow trout. These newly planted members of the great lake's community will approach the shoreline in great numbers beginning in the summer of '87. Caught very much like the ice out browns, these large, migrating rainbows should provide much sport and opportunity for vacationing fishermen.

After August begins, full anticipation is given the approaching salmon season. Somewhere during this month, the big giant salmon will begin their trek inshore in preparation for their move into the tributaries in hopes of finding a suitable location to spawn. If you want to troll a 30 to 40 pound plus chinook "king" salmon, now's the time to plan your trip to the lake. Remember, these fish are caught all along the lake from the City of Wilson in the southwest around to Henderson Harbor in the northeast.

After August, the giants will move into the tributaries entering into the lake. Throughout September, the fish can be caught by troller and stream fishermen alike. The stream fishermen will score well on into October, while the troller will usually call it quits by the end of September. The last region where trolling action prevails is in the Genesee River area found due north of the City of Rochester.

After the trolling season wanes, the stream-based angler is king! With runs of chinook and coho salmon ending, the steelhead rainbow trout now begins its assault upon the tributaries. Caught in the Niagara, Genesee, Oswego and Salmon Rivers to name a few, this big crowd pleaser remains available all winter long.

The two best ways of fishing for the lake run rainbows is by bait or lure. I advise to always try a lure before switching over to bait. Sometimes the big rainbows will strike lures all day long. When this is the case, there's no need to allow your bait to get stuck on the bottom. However, should the fish not prefer the lure on a particular day, simply switch over to bait and attempt to get your prize that way. In either case, should a steelie grab the bait, hang on.

Well, these are the seasons and species available all year-round in Lake Ontario. Should you want to trailer your boat, there are launch ramps located all around the lake, should you want to fish off the beach, there are piers and inlets where you can do this all year, too. Should you want to get a guide, try to make arrangements well ahead of time. You should call a tackle shop in the area you want to fish, or use the numbers of the guides advertising in this book. Anyone going to Lake Ontario is in for a great experience, very much like going to Alaska. So, don't put it off any longer. Good fishing!

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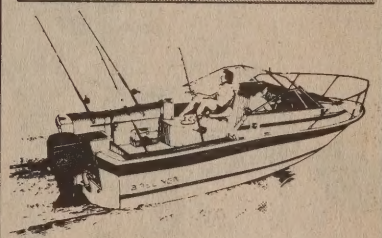

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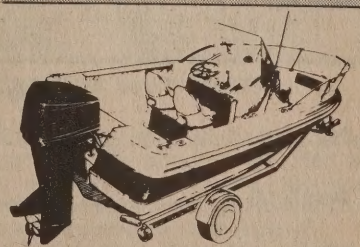

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FISHERMAN TRAVEL LOG:

TARPON PARADISE

by Al Ristori

Among all of the world's great game fish, the tarpon must rank close to the top. This oversized herring is surely one of the finest adversaries on light tackle, and he very cooperatively ventures into the shallowest of waters in a number of areas. Among those tarpon hotspots, the east coast of Costa Rica is one where relatively little consideration is given to other species.

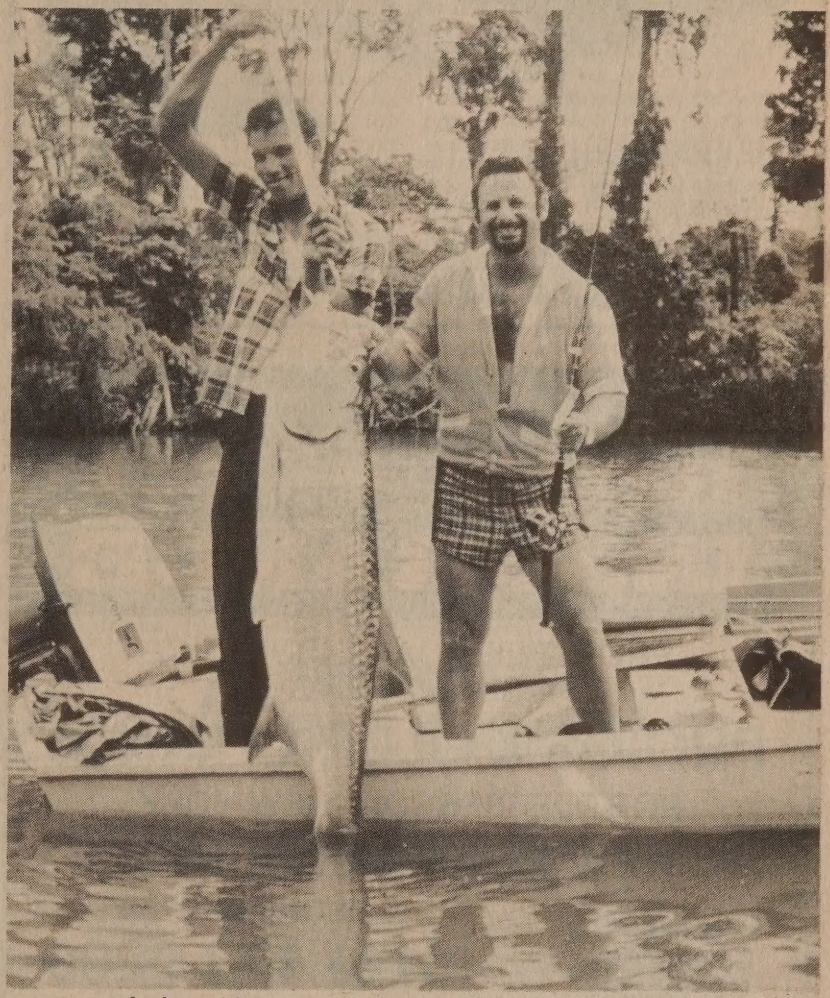
There is no secret about Costa Rican tarpon fishing. Camps were established at Parismina and Rio Colorado about two decades ago, and quite a few more have been added since Carlos Barranties got things started. It would be amazing if tarpon were still as abundant now as they were then, and they certainly don't seem to be. On the other hand, they could just be a lot smarter.

Despite that, Costa Rica still provides some of the best tarpon fishing in the world. The only problem is that you have to be there when it happens. There are weeks when conditions are ideal and tarpon are so abundant and cooperative that anglers get tired of jumping them and look for something else to do. Unfortunately, that is not the norm. There are other weeks when practically nothing is caught, and the most common situation is a mixed bag: some good days and others poor.

The Costa Rican jungle constitutes one of the great rain forests of the world. The rainfall there is astronomical and the camps basically operate during the theoretical dry seasons of mid-January to mid-May and late August to mid-October. I emphasize the word "theoretical" because I've seen many a deluge during the dry season.

Actually, the rain that occurs along the coast is only an inconvenience. That which affects the fishing falls in the mountains and swells the rivers. Tarpon fishing is rarely good when the water is high and muddy, though you may find some tarpon in clear lagoons and creeks. Then again, there was the year I went down there to find low, clear water, but the fishing was poor because the water level was too low on the river mouth bars, with the result that the tarpon stayed offshore.

That, indeed, is the basic problem in Costa Rica. There are lots of tarpon, but most of the time they're cruising around out in the Caribbean Sea. When conditions are right, those tarpon flood in and provide the red hot fishing we're looking for. At other times, you'll have to work hard for even a single tarpon.



Author with tarpon taken at Parasmina Tarpon Rancho.

Given these great variables in the fishing, there are two things that come to mind. First is the importance of picking "the right week. Unfortunately, I don't believe there's any formula for that. I've fished Costa Rica many times since the early 1970s and I haven't noticed any pattern as to good weeks and bad. Only the end of the year is considered a poor time for river tarpon fishing. At any other time you're likely to get good action any week. At Rio Colorado Lodge they stay open all year, and some of their greatest fishing occurred one year when Lee Marvin and his entourage decided to show up in June. That should be a rainy season period with poor river fishing, but the weather was good and the tarpon cooperated with a vengeance. Ironically, the same thing happened last June—but that's no guarantee about this June.

The second thing that comes to mind is that if there are so many tarpon offshore "why not fish out there?" The answer is that they do fish offshore whenever it's possible. However, there are many weeks when it's not possible to get past the waves crashing on the bars across the river mouths. The sea may not look that rough, but if there's any swell you'll see big breakers on the bars. Even that's not enogh to keep the intrepid Costa Rican boatmen from running

(Continued on next page.)

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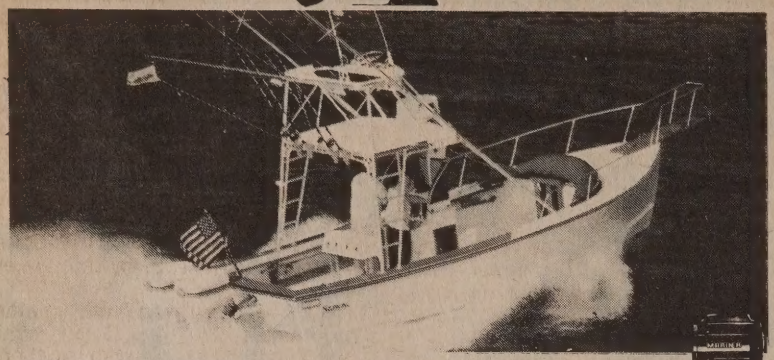

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flat-bottomed 14 and 16 foot aluminum boats out to sea, as long as they see some holes. Unfortunately, there are often no holes in the lines of breakers.

The next step is bigger boats. That's been tried for many years with varying success. The basic difficulty is that you can't use a boat with much draft, because there's so little water on the bars. Rio Colorado Lodge and Parismina Tarpon Rancho both have dories which can get offshore under marginal conditions, but there's no guarantee that this fishing will be available to you during the week you're there.

The tarpon encountered offshore are usually feeders, whereas those in the rivers and lagoons are frequently "turned off." As a general rule you can throw anything at those offshore tarpon and as close to them as you can get. They strike readily, and after that it's just a question of whether they throw the lure (which happens more often than not), or you catch them before a shark does. It's not unusual to see schools containing hundreds of tarpon, and you may get several strikes on a single cast.

The inshore tarpon must have other things on their minds, because they don't seem to feed actively and have to be coaxed into hitting. Slow moving, virtually actionless lures such as the MirrOlure, Wiggle Diver and Sea Hawk are the standards. In the lagoons off the Parismina and Pacuare Rivers, it's mostly casting with the latter two lures—which are retrieved very slowly just off bottom. Up at Rio Colorado, the standard technique involves anchoring at bends in the river and flipping out a 68M MirrOlure. Then put your reel in gear and wait. The river current provides all of the minimal action required. Don't expect a crashing strike in either case. All you're likely to feel is a light tap, at which point you'll have to strike hard in order to bury the hooks in whatever spot in that bony mouth where it may be possible.

As much fun as the daytime tarpon fishing can be, my favorite sport at Parismina involves surfcasting at night or dawn. At times it's possible to catch tarpon from the surf during the day, but the best bet is at night. The river mouth at Parismina is fairly narrow and only a five minute walk from Parismina Tarpon Rancho. Tarpon often feed in the mouth when it's quiet, and they'll readily hit surface swimmers, Creek Chub Darters and MirrOlures.

It's quite a thrill to hook 40 to 80 pound tarpon from the shore and fight them against a strong river current flowing out to sea. At first, I used the same baitcasting outfits as during the day for this fishing, but I now prefer an 8 to 9 foot surf spinning rod with a medium sized reel and 15 to 20 pound mono. Just as is the case offshore, we lose some fish to sharks in the surf.

When river fishing isn't good and it's too rough to go offshore, the

guides often fish in the river mouths. The boat is anchored from the stern and anglers cast towards the breakers with MirrOlures or jigs.

There is a bit of variety on the east coast of Costa Rica and there could be a lot more. Snook is the other primary species, though the best fishing for large snook is during the late summer and early fall. Nevertheless, some are caught during the spring season, primarily by trolling Rapala Magnums or Bombers—or by casting jigs in the surf. Smaller freshwater species such as the machacas, guapote and mojarra can fill in the poor tarpon periods.

With the dories available, it's now possible to range offshore into blue waters for sailfish, marlin, wahoo, tunas and dolphin. The 100 fathom drop is only a few miles offshore and there are often huge weed lines. Closer to shore you'll find jack crevalle, king mackerel and barracuda.

When I first started going to the Costa Rican camps, they were fairly primitive. Now there's hot water, separate rooms or cabins and lots of good home-style cooking. Surprisingly, insects are no problem at all. There may be some mosquitoes or no-see-ums right at dusk, but you'll rarely see one at any other time. It is warm, and you'll need plenty of protection from the sun in the small boats. The schedule involves morning fishing, before a return to the camp for lunch and a siesta. About 2:30 you'll head out for a few hours of afternoon sport.

Many anglers tell me they're afraid to go to Costa Rica because of the political climate. That's pure nonsense, and reflects poorly on the American tendency to regard everything south of the border as being dangerous and anti-American. Costa Rica is a flourishing democracy with a strong European tradition. This "rich coast" disappointed the Spanish in that there were few minerals to be mined, but the settlers were fortunate in that the area wasn't already populated by Indians. The population is almost entirely of European descent, and most Americans could walk down the main street of San Jose and never be spotted as an outsider. Many Americans retire to Costa Rica, and though Spanish is the official language: English is understood is understood almost everyhwhere.

Flights to San Jose are frequent and not very expensive. Eastern runs a good schedule out of New York through Miami. San Jose is a beautiful city surrounded by mountains, and the camps put their guests up in first class hotels. Then you fly through the mountain passes on twin engine airplanes right to the camps. A full week of fishing should set you back considerably less than $2000 (all expenses, right from the States, included), with shorter trips also possible.

Parismina Tarpon Rancho is run by Ginny and John Kollman. Their U.S. office is P.O. Box 290190, San Antonio, TX 78280. You can call toll free at 800-531-7232. Archie Field's Rio Colorado Lodge, P.O. Box 5094, San Jose, Costa Rica; and Casa Mar Fishing Club, World Wide Sportsman, P.O. Box 787, Islamorada, FL 33036, call 800-327-2880 are located further north near the border with Nicaragua. Nevertheless, even there you're as safe as you are at home. You will see some Costa Rican National Guard troops (Costa Rica has no army), but the U.S. stands behind Costa Rica and the Nicaraguans know better than to give us an excuse for intervention.

Both the fishing and the weather are up and down along Costa Rica's east coast, but I enjoy every trip there. The numbers actually landed may not always be great, but the thrill of tarpon fishing is in the jumping—not the catching. If you're lucky you'll hit things right. If not, you'll be like I was last year: sitting in a small boat in a tropical downpour, along with Pat Lynch of Union, NJ and wondering what kind of nut I was for being at Rio Colorado Lodge that week. Then I got a light tap and a tarpon of over 90 pounds reacted to my instinctive strike by blowing apart the surface of the rain pelted Colorado. At that moment, I knew that it was worth every bit of trouble; and I'll be back again. Give it a try and see if you, too, don't get hooked on Costa Rica.

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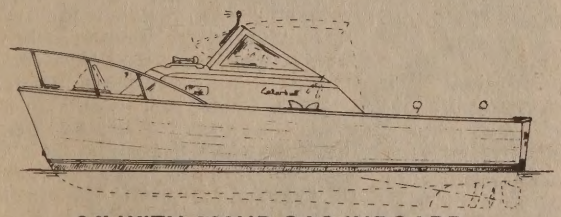

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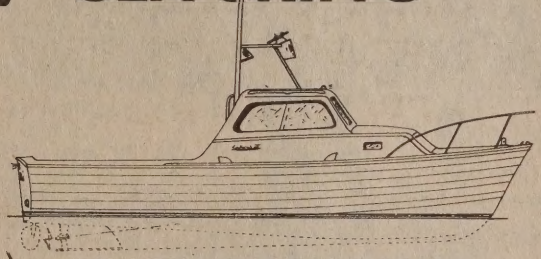

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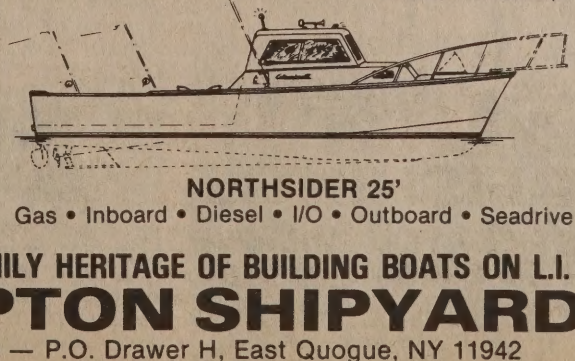

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AN EDGE WORTH TALKING ABOUT

by Joseph Ambrose

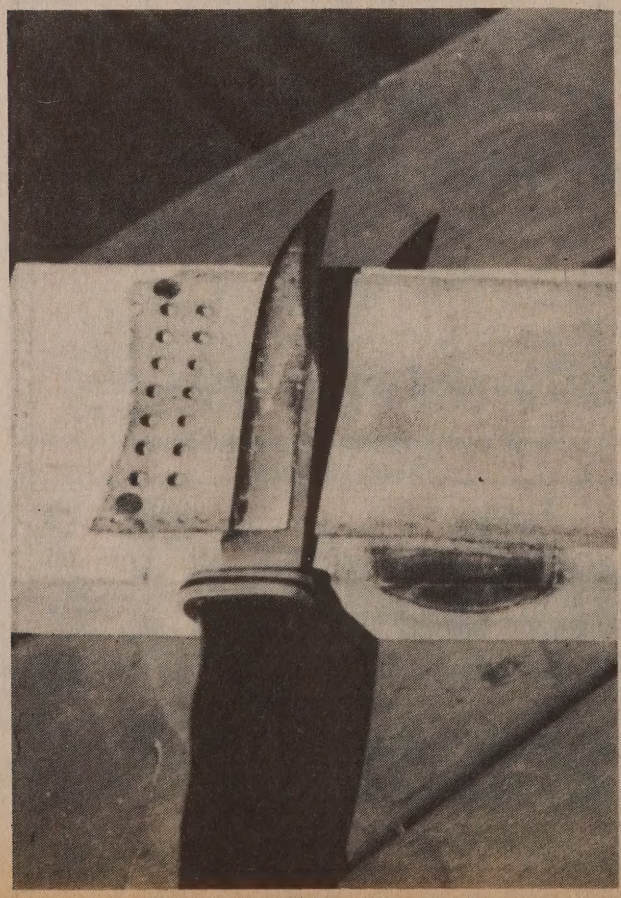
How many of us really know how to get a knife super sharp?

It had been a long drive, that April afternoon, to the seaside campsite—far longer than the weary fishermen had anticipated. In fact, their late arrival compelled them to do all their unpacking by the light of the cold, spring moon and a hissing Coleman lantern.

With all their gear securely stowed and the dinner dishes washed, the small group of friends drew their cots close to the heater and started planning the next day's activities. This was the first such trip for Fred (not his real name) and he was anxious to become an integral part of the group by impressing his companions with his outdoor skills. Thus, he withdrew his fillet knife from its sheath and, while explaining the hours of meticulous labor that went into its sharpening, passed the hallowed blade to each of his admiring friends. All but one were dutifully impressed. The latter, feeling hopelessly trapped and not wanting to hurt Fred's feelings, finally managed to murmur: "That sure is some knife, Fred."

Not surprisingly, there soon followed a short period of "show and tell" as each man tried to win the impromptu "my dog (or, in this case, knife) is better than your's" contest. The old-timer was reluctantly drawn into this affair and, with suitable warnings, handed his favorite fillet knife to Fred. Confident that the old-timer's warnings were mere puffing, Fred ignored them and tested the knife's edge as he had all the others, by running his thumb along the edge. Fred joyously exclaimed, "Why, this knife isn't that..." but, before he could say the word "sharp," a sickened look overtook Fred's face. The edge had struck bone before Fred felt it. Fortunately, the most serious damage was to Fred's pride.

Of all the skills that a sportsman, or sportswoman, develops, it is the art of sharpening a knife that is the least understood, but most appreciated. To many, such a skill is beyond the abilities of mere mortals and is a talent best left to professionals and sorcerers. Actually, sharpening a knife or other edged tool is far less difficult than tying one's shoes, a skill that most of us learned at a very tender



Correct use of stropping block.

Correct position of knife on stone. Two quarters are being used to establish the proper angle. Dark spot is a drop of honing oil.

age.

Not only is this task far from mystical, but the tools required are very few and relatively inexpensive. As a bare bones minimum, a medium grade Arkansas stone is quite indispensable. With such a stone, it is possible to perform all the ordinary sharpening tasks around the average home or campsite. Axes, knives, chisels and planes, to name just a few, are readily sharpened by this instrument.

Arkansas stones are natural, marble-like stones that are quarried in several Southern states, including Arkansas. Although the market is cluttered with synthetic products that approximate its qualities, none can quite match the Arkansas stone's ability to both grind down a really dull chisel and put a shaving edge on a fillet knife. This versatility alone justifies its selection.

By the way, one should consider purchasing the largest stone that one can comfortably budget. This not only simplifies the task of sharpening small objects, but makes feasible the sharpening of larger ones. Additionally, it helps keep one's fingers farther from the newly generated edge.

Second, some form of lubricant is required. Honing oil or light motor oil is ideal but in an emergency liquid soap or even water will do. The purpose of the lubricant is to float the minute particles that will be ground from the blade so as to prevent their clogging the stone and interfering with its sharpening abilities.

These are all the tools that are required for most sharpening tasks. If a shaving edge is desired, two other items are required, one of which is store bought. To get that shaving edge, it will be necessary to purchase a hard Arkansas stone. The hardest, incidentally, are usually black in color and, not surprisingly, are so named. Since their application is more as a specialty item, a smaller sized stone will usually suffice.

Finally, a strop will aid in getting that final degree of sharpness from your knife. A leather belt with one end secured to a bent nail or a door knob makes a convenient strop. A piece of leather tacked to a board will also do. In a pinch, I've obtained excellent results stropping knives on smooth cardboard or even the cover of slick magazines (both placed on a table for rigidity).

With all the tools assembled, it's time to start sharpening a knife. First, take a look at the knife's original edge. As it left the factory, its edge was probably ground at approximately a 30 degree angle. This is fine for an all purpose edge as it leaves a lot of steel to back the delicate edge. If you intend to use your knife for everything from whittling to slicing cold cuts, this is the angle to maintain when sharpening that knife.

A fillet knife, or any other knife that will not have to perform such rigorous cutting tasks but should be super sharp, requires a more acute angle. With less steel supporting the edge such a knife will approximate a razor's profile. The trade-off is that it will dull more quickly. Since sharpening a knife is so simple, and since I enjoy a really sharp blade, my preference runs to the finer sharpening angle. As a rough yardstick, one can double the length of the factory's bevel or, if that has been removed by repeated sharpenings, dig into your pocket for a couple of quarters.

First, place the stone firmly on a bench or table top. Next, add some of your honing liquid. A puddle about the size of a pre-inflation silver dollar is perfect. Place your knife on the stone with the edge pointing away from you. Elevate your knife's back or spine so as to maintain the angle or bevel that is desired. Remember those quarters? Well, if you're uncertain of a starting angle, place the quarters on the stone and elevate the back of the knife to just clear them. Now push or slice the knife through the oil to the far end of the stone. If possible, try to swing the knife so as to bring the entire blade in contact with the stone (it may be necessary to raise the rear of the knife to maintain the same angle at the point). Use a moderate amount of pressure at first (you are trying to grind away excess steel) and repeat this step several times on the same side (say, a dozen times if really dull; half that if not) before turning over the knife to work the other side. If it helps, try to visualize that you are attempting to slice off a thin layer of the stone. In order to prevent the stone's clogging, be ever vigilant that the honing oil not be allowed to dry. If so, replenish it. Incidentally, should your stone clog, it can be cleaned with dishwashing detergent and water.

After awhile, you can decrease both the number of strokes per side and the pressure you apply. Your knife will now be sharper than it has ever been. For a general purpose edge, this is the time to stop.

If a super sharp edge is desired, say on a fillet knife, you will have to oil up the hard stone and repeat the whole process. Of course, less pressure will be required as you sweep the blade over this stone since you are merely fine tuning the edge, not reshaping it. In only a minute or two, you should have a shaving edge.

All of these strokes have been made with the edge leading. The strop, which is used to apply that final degree of sharpness that the knife is capable of obtaining, would soon be shredded if used in this fashion. Thus, the edge is run backwards over its surface. This dragging the edge soon smooths out any irregularities in the edge and duplicates a razor's edge. You can now clean up your stones as the job is completed!

No worse than a trip to the dentist, sharpening a knife is a simple task that will amaze all your friends and provide you with one of life's simpler pleasures: a really sharp edge.

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GOING CUSTOM

by Art Michaels

I realized some provocative facts the other day while I was thinking of four fishing companions. The combined number of fishing rods they use most often is 21 and of those 21 rods, 12 are custom built. What's more, two of these anglers build their own rods.

It occurred to me that year after year as my angling partners became more accomplished fishermen, they required more specialized, personalized equipment. A custom built fishing rod now helps them be more successful anglers because of their rods' specially crafted characteristics. Those same qualities make their fishing with custom made rods more enjoyable.

If you fish often and don't yet use a custom made rod, I'll bet it's only a matter of time before you do. If you are thinking of joining the fraternity of anglers who use custom made fishing rods, here are ideas that could make your initiation into this new world of fishing enjoyable.

Consider first that, like two of my fishing friends, you don't have to make a rod yourself to own a custom built stick that you're delighted to use. These days, building rods is an increasingly popular hobby for many, but for some, it's an art—and a livelihood. There are professional custom rod builders who guarantee their work and they offer their services at reasonable prices. Furthermore, the best rod builders I know are also angling experts who know our fishing rod needs very well.

You can probably find a custom rod builder close to home. But shop around a little to find the builder who shows you the credibility you should demand, the skills you want to see and the price that makes you smile.

Make initial contacts first by asking in bait and tackle stores, and when you chat with a rod maker, ask for references. The best ones can give you a long list of happy customers. Ask to inspect samples, too and try out a few rods.

Next, you and the rod builder will want to discuss in detail the kind of fishing you do, where you do it, when, the kind of reel you expect to use with your custom built rod, line strength and so forth, so that the rod maker can suggest blanks and components. Tell the same information to a variety of rod makers and then compare notes.

Ask lots of questions, too. Find out why a rod builder recommends certain blanks and components, and check out the answers with other builders and fishermen.

When you decide on what you want, get prices and compare again. Then choose your rod builder.

In my case, the rod maker picked me. My father's hobby is building rods, an avocation he began about 12 years ago. For his very first custom built rod, he bought some supplies and for the most part used tools he already had at home. He read a book or two, decided what he wanted to build, bought the components and started his project. His introduction to building rods was easy and inexpensive.

Funny thing about his first homemade rod. It's a 6½ foot light action fiberglass spinning rod that he made for me and for the kind of fishing we frequently enjoy. That rod is now over 12 years old and I've hauled in hundreds of fish with it, the largest of which was a 15 lb. catfish that put up a half hour battle.

That rod is still in the same rock-solid shape it was the day he gave it to me. And you know what? It's a constant companion on all my fishing trips. That very first rod building try is responsive and well balanced and I wouldn't dream of fishing without it. Remember: this gem was his first rod building try!

Since then, my father's skills have grown increasingly polished and his creations have become more and more perfect. He's added a few more light action spinning rods, ultralight spinning rods, casting rods, and fly rods to my collection and he's created other masterpieces for me that I asked him to make.

As you can see, one way to become the owner of a custom built rod is to find a craftsman to build it for you. An even more attractive alternative is to

make a masterpiece yourself, as my father did on his first attempt.

During the last 20 years or so, growing numbers of fishermen have built their own rods because our sport has been characterized by greater angler sophistication and know-how. These increasingly skilled fishermen wanted rods made from blanks with tips, mid-sections and butts that had unique qualities. They needed rods with freshly designed guides made of new materials that could outperform the choices on store shelves, and they wanted these guides placed on blanks with micrometer measured precision. They also demanded special-purpose, redesigned reel seats. They required rods that could be used in more sporting and specialized ways—lighter tackle for bigger fish, for instance and rods for use in specific fishing circumstances.

In short, their new-found fishing skills let them advance to personalized rods that could meet their new technical requirements and higher angling expectations.

During this same 20 years, component manufacturers and firms that sell rod building materials responded to the changing needs of fishermen. That's why excellent instruction books, pamphlets, cassettes and video tapes are now widely available and many rod builders themselves will help you. You can even take courses and seminars in rod building.

So today, you get all the help and technical advice you need to build your own rod. In fact, many fishermen have learned that they can build a terrific rod without spending years honing their skills and without going through hours and hours of special training and practice.

All in all, if you've never before built a rod, and if you want a custom-made gem, you **can** do it and now is a good time to learn how.

Of course, your first homemade rod may not be a Michelangelo, but it can be serviceable. In fact, you may still be using it regularly 12 years from now, as I use my father's very first effort.

Consider also one practical advantage of building your own rod—the price of making a top-quality rod with components you buy separately or in a kit is much lower than the cost of the same rod that you could buy in a tackle shop or from a mail order firm.

So if you want to build a rod but you're new to this craft, read some books, seek other instruction, get some components, and go to work on your very first personalized masterpiece. (It makes sense to start with the ads in The Fisherman for firms that sell components as well as for custom rod builders.)

Fly rod anglers who learn to tie flies know the pleasure of catching fish on their hand-made creations. Lure makers know the same good feelings, too. You can have that same satisfaction when you catch fish on a rod that's been specially made for you, or on a rod that you yourself build.

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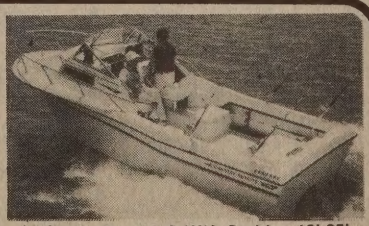

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TALKING ON TIDES

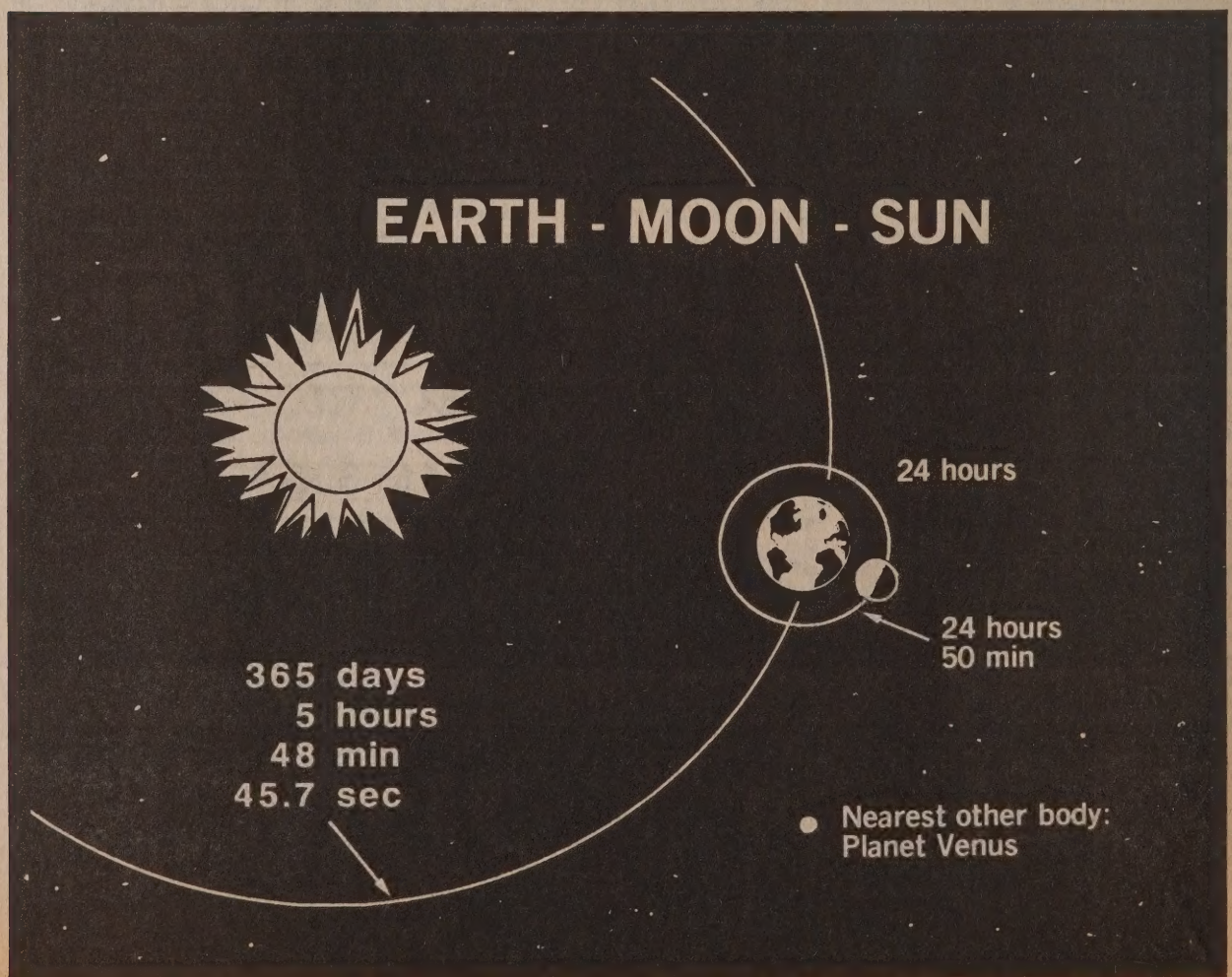
by Henry Foglino

The author sheds some light on the often perplexing subject of tides.

Tides are hardly a phenomenon that can be overlooked by boatmen here on Long Island. If one stays at the seashore for a 24 hour period, he would not fail to notice that the water's edge would reach up to a maximum point on the shore covering all the areas behind it under a watery blanket, then recede to a minimum point exposing all that had been covered with water hours before. This cycle would be observed to reoccur twice in a 24 hour period and if observation were maintained for 30 days, the upper and lower limits would be seen to converge and then diverge from themselves through a minimum and maximum difference between them.

Oddly enough this variation in seaside water level received very little coverage in early literature. No mention is made of tides in the Old or the New Testament and there is very little reference to the subject in the early Greek and Roman literature. Earliest reference to periodic movements of the earth's ocean was made by the Greek historian Herodatus who was born 485 years before the beginning of the Christian era. How is it then that something so evident and potentially awesome was not recorded in early history? The answer is that in the Mediterranean area, where early history began, the tidal movements are very small and in some areas nonexistent. Ergo, the seamen and scientific types of the time had no reason to notice any unusual changes in water level on their shore, and had no inkling the water level in some parts of the earth would vary as much as 60 feet in one day.

When man began to expand his horizons and sailed west between the Pillars of Hercules visiting other lands, he then noticed the periodic rise and fall of the ocean's surface. Many theories ensued such as "the earth is an animal and its breathing causes the tides" or "the motions of an ocean dwelling monster causes the tides," or "angels fly low dipping their wings into the oceans causing the movements." The multitude of "explanations" continued until at long last a correlation was made be-



tween the tidal movements and the moon and sun. This was first noted in Pliny's Natural History written in Latin in 77AD. In 1687 Isaac Walton published his Principe and for the first time the tides and the correlation between sun and moon received some logical explanation. It was noted that there is an attractive force between any two masses in space which is equal to the product of the two masses times a constant (the force of gravity) divided by the square of the distance between them.

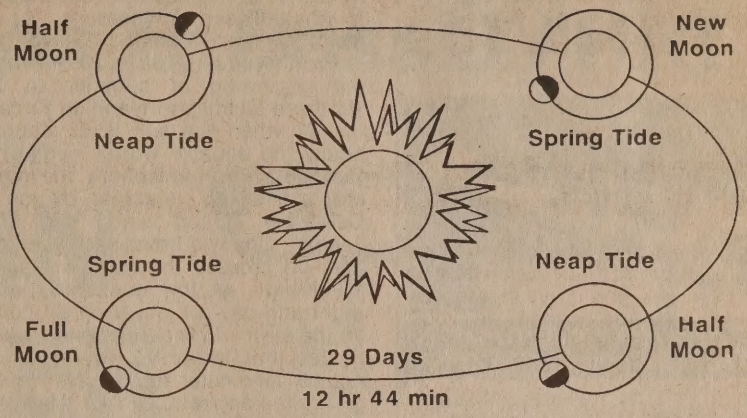
This equation computes the force acting on the earth due to the attraction of the moon. To compute the sun's influence, its mass and distance to the sun would be substituted for those of the moon. If we solve the equation computing the force due to the moon's and sun's influence, we will find that the force exerted on the earth by the moon is approximately two and one-half times the force exerted by the sun. Although the mass of the sun is 26 million times greater than that of the moon, it is 389 times further from the earth than the moon. Since the square of the distance is in the denominator of the force equation, the sun's influence is markedly less (about 1/2) than that of the moon. The closest other body, the planet Venus, exerts a force of less than one ten thousand of that of the moon and its influence of the tides can be ignored.

This "Equilibrium Theory" availed some answers re: the movements of the earth's oceans, but not until the end of the 18th century when the French mathematician and astronomer, La Place, approached the issue considering the oceans as a water body in motion (Dynamic Theory) did reasons for the ocean movements become a little clearer. Let us consider the earth as a globe completely covered with water. Incidentally, not only is 70.8 percent of the earth's surface beneath the oceans, if one were to take a giant rake and rake the earth's surface flat, the entire global surface would be covered with water 3 miles deep. We now have a spinning water covered globe with a moon orbiting it in the same direction. As the moon orbits the earth its attractive force pulls the water mass in its direction. In order to maintain equilibrium, the water bulges on each side of the spinning earth. Thus we have this "bulge" of water rotating around earth coinciding with the moon's rotation. Since it takes the moon 12 hours and 50 minutes to orbit the earth, this "bulge" will be retarded 50 minutes for every revolution of the moon around the earth at any reference point on the arth, or high tide will occur 50 minutes later every day. This is the reason why the time of high tide is always changing at any point on the earth's surface.

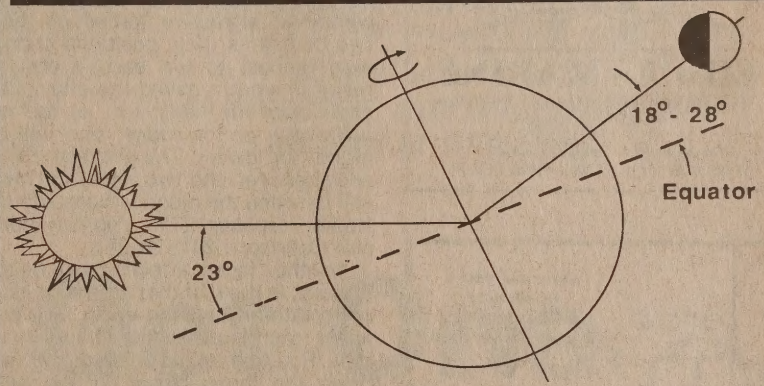
Another observation that one would make if the tides were monitored at a point on our water covered globe in that the two daily high tides would not

(Continued on next page.)

PHASES OF THE MOON

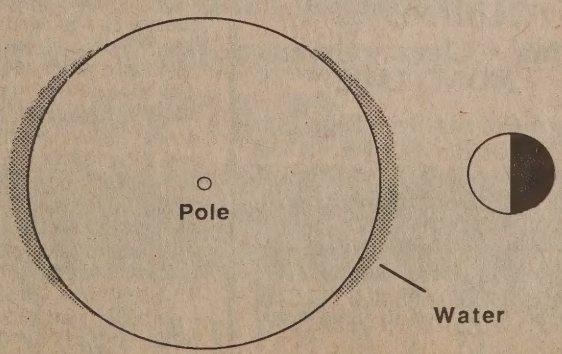


DECLINATION



- Gives rise to diurnal inequality
- Greatest when Moon is near tropics

MAIN TIDAL FORCE - LUNAR



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be equal, i.e., one would be higher than the other as one low tide would be lower than the other. This is due to the varying declination of the moon and sun. The sun's position with reference to the equator (declination) is what causes our seasons. At its most northerly point, 23 degrees above the equator June 20, we have the beginning of summer in the Northern Hemisphere and on December 21 when the sun is 23 degrees below the equator winter begins. In the Southern Hemisphere the opposite is true; i.e., summer begins on December 21 and winter begins on June 21. The two times each year that the sun crosses the earth's equator are known as the equinoxes when night and day are equal on all points on the earth. This delination is due to the fact that the earth's rotating axis is not perpendicular to its orbit thereby giving the appearance that the sun is moving north and south of the equator in one revolution of the earth around the sun. Like the sun, the moon's orbit around the earth is not constant, but changes such that the position of the moon varies 18 to 20 degrees north or south of the equator. The combined attractive forces of these two bodies as their positions change with respect to the earth's equator result in what is called the diurnal inequality of the tides; i.e., of the two daily high or low tides, one will be higher (or lower). The greatest diffreence between the two highs (or lows) will be when the moon is closest to the tropics (Cancer 23½ degrees north and Capricorn 23½ south).

Another factor affecting the height of tides, is the fact that the moon does not rotate around the earth in a perfectly round orbit but rather in an oval. Rotation in this shaped orbit will bring the moon closer to the earth (perigee) twice during one orbit and also separate the two bodies to a maximum point (apogee) during the same orbit. The attractive force varies during these excursions resulting in higher and lower tides during perigee since the attractive force is greatest at the shorter distance between earth and moon. The time from one perigee to another is 27½ days.

One last celestially caused tidal variation that we will consider is that caused by the relative positions of the sun, moon and earth. When the sun, earth and moon are in a line (full and new moons) their combined forces are additive resulting in the highest and lowest (greatest range between a high and a low) tides. Conversely when the sun, earth and moon form a right angle (half moon) their forces are distributed such that minimum attraction occurs and we have the least range between high and low tides. These spring (greatest variation between high and low tides) and Neap (least variation) tides occur twice during the moon's 20½ day cycle.

Thus far we have been talking about a plain globe covered with water. When we add the continents and varous land masses everything changes. It has been said that astronomy creates the tides and geography controls them. The water in the world's ocean basins and other water bodies on planet earth are set in motion by the gravitational forces of the moon, sun and earth, but the rate and direction of flow is controlled by the land masses. Therefore, the number of high and low tides is a function of a particular location.

The greatest tides occur in the Bay of Fundy, the body of water separating Nova Scotia from Maine and New Brunswick. The tides in the Bay of Fundy exhibit the typical diurnal (twice a day) characteristics of the Northern United States, however, the range varies from 10 feet at the mouth to over 40 feet at the upper forks.

This can be explained in part by the converging shore lines (87 miles at the mouth and 30 miles at the fork) and decreasing depth (average delpth 280 feet at the mouth and 130 feet at the fork). As the water rushes in during the incoming tide its volume remains the same but the vertical component must increase to accommodate it resulting in an increased height of water at heads of the forks. However, this alone does not explain the great range of tide in the Bay of Fundy. The explanation lies in the fact that standing waves exist in the Bay. A standing wave may be visualized in the following manner: if one takes a rectangular tank such as a bath tub (almost rectangular) and momentarily agitates the water in it, after a time the water will be seen to rise and fall (oscillate) in unison, i.e., the water will rise to a maximum at one end and at the same time drop to a minimum at the lower end. These great tidal ranges are due in part to the geometry of the Bay and also to the additive water levels due to the incoming tides and oscillation of standing wave (also called a seiche). One last note on the tides in the Bay of Fundy is the fact that the range of tide is higher on the southern shore than on the northern. This is due to the rotation of the earth which causes an apparent force called the Coriolis Force. This force, in the Northern Hemisphere, causes moving bodies to be deflected towards the right (left in the Southern Hemisphere). Therefore, the incoming tidal waters are pushed to the right and tend to "pile up" on the southern shore of Bay, whereas the outgoing tide (again pushed to the right of its direction of flow) is pushed away from the southern shore resulting in a lower tide as compared to the northern shore.

This article has touched lightly on the subject of tides. There are a great many more factors that, although not as pronounced as those just discussed, affect the tides. Many excellent reference books have been written on the subject and anyone who would like to delve further into the subject should have no difficulty finding reading material at the public library.

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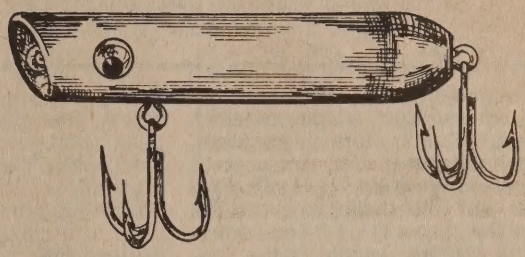

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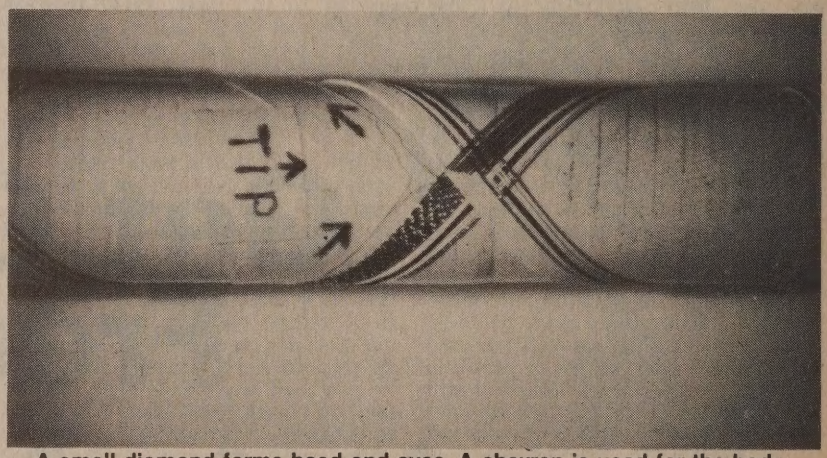
CUSTOM BUTT WRAPS: CHEVRONS

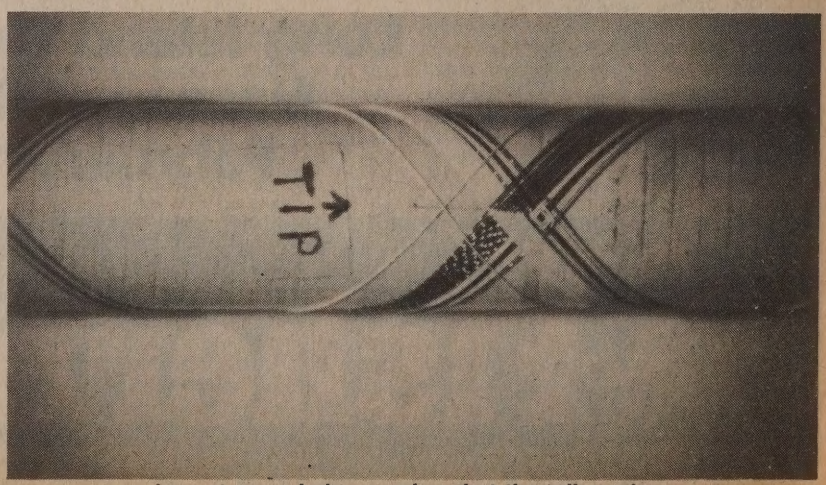
by Ted Bingham

Webster's defines a chevron as a badge consisting of stripes meeting at an angle. Rod crafters can consider it a half diamond. The single axis chevron is formed by spiraling threads, up and down, only to the right of the center thread. The double layout is identical to that of the double diamonds. A separate center thread is used on each axis and they are only wrapped to the right. The other still remains the same, working diamond one, then two, back to one. The major difference between the two is that, with a normal chevron, the entire blank area is filled. As the pattern develops, the underwrapped blank area takes the shape of a diamond. Many people terminate the wrap at this point, deliberately leaving this void visible. This is the easy way out. First, you'll be surprised at how long and time consuming it is to fill the entire blank area with thread. Another advantage is that the spacing problems are alleviated, as there are no last threads to squeeze in. Finally, the full development of the pattern is the only loss attributed to this shortcut. Filling the entire blank area or not, it is still recommended that tight spacing and numerous small bands of threads be used. If the entire blank area is to be covered, be certain the bands of thread are equal on double axis designs, if identical patterns are desired. Of course, just as in any wrap, there are no set rules. For instance, a double pattern could have the first set wrapped to the right; the second to the left and both in a different direction on the blank. Mylar, splits and any other variation can be incorporated into the design. In fact, they can be combined in such a way that a diamond results. This is accomplished by using four axes with identical colors and band width. It might sound like a lot of work but remember, you're only wrapping the right side of each. Therefore, it actually equals the total work of only two patterns.

Although a full chevron pattern has never impressed me, it does have merit. Small sections of only a few bands placed around a design, in strategic locations, can have impressive results. With subtle placement and a careful choice of colors, these angled bands can give the illusion of movement. The result is similar to the trailing lines placed behind the wings of a sketched airplane. The effect achieved will depend upon personal color perception along with the ability to shade, or gradually change the colors used. Shading is most productive when applied to a closed wrap, but can also be used with the open version. Rather than designing a pattern with random colors, shading will allow a smooth flow. Two typical examples of shading involve the colors brown and yellow. Due to the manufactured tints available for each, it's a simple matter to start with the light color and slowly advance to a dark (tan, brown, dark brown, chestnut). The same result can be achieved with most any color. Some require combining bands of shades. These bands are injected with more and more lighter threads on each pass. For example, the thread combinations would be: dark/dark, medium, dark/dark, medium, light, dark. The progression continues, peaks and reverses with the increase of light threads and the reduction of the dark ones. Adding to this, it's possible to see how you could start with one color and end with another, such as red to yellow. Now we apply this to bands of chevron trim. Consider last week's nova. Instead of closing the wrap with a dark border use trim on one side only. Begin at the star and progress, outward, to a



A small diamond forms head and eyes. A chevron is used for the body.



Layout cross hairs are placed at the tail section.

darker color. The visual effect is a blur on one side while the other side is clear and defined. With the proper colors it could give the impression of the star coming from the horizon point and shooting to a stop. The same effect can be accomplished with many patterns. Shading and the use of chevron trim is the key.

Learning the trim technique is simple; it's the shading and colors which most of us will have problems with. All that is necessary to add trim is an interchange of background colors. On a closed wrap, complete the pattern's focal point and the first few background threads. Instead of continuing to wrap the border begin introducing the trim. This is usually performed on only the top or bottom of the design. For instance, the background (black) is made by wrapping all four sides of the pattern. Instead of black, one trim thread is added on the top of the pattern. Follow this with one black thread on the bottom. Repeat this until the trim accomplishes its effect. It's the same principle as the split diamond wrap: top, bottom, back to the top. When the trim size is proper, switch to all background threads and finish the design. Normally only a few strands of thread are used before reverting back to all border color. The placement of these extra threads, after the trim, will cover the bottom of the chevron. This leaves only a narrow "V" or arrow pointing toward the next pattern in the series. It is the expansion of this arrow that, with the proper shading, can lead to various illusions. It's also noteworthy to mention that the trim doesn't have to be centered. This can be obtained by uneven wrapping. Start by wrapping only the two left sides on the bottom. Do not wrap any top threads until the bottom threads have moved past the pattern's center. Now add the trim on the top. After the trim is complete, return to the bottom left and finish the closed wrap. Again, these extra threads will cover the bottom of the chevron, only this time an off center trim will result. Certain cases require trim to be placed on the side of a design. The instructions for this occurrence would be identical to the procedure for an across the axis split diamond.

Since the topic is chevrons and we're all fishermen, the next design is perfect: a fish. It involves using a diamond for the head and eyes, chevron for the body, split diamond for the tail and chevron trim. A piece of cake!

For this, the best layout shape is elongated along the axis. It's one of those patterns that sound extremely difficult. After you stumble through it once, you'll be surprised at how simple it is. The eyes and head are formed first and will not be the center of the design. Therefore, determine the layout center and place the cross hairs a few thread widths to the left. Spacing will determine the size of the fish and as such, is arbitrary. With the cross hairs in place, form the head and eyes by wrapping a standard diamond of one black, one white, one blue. This completes the first step. Now we use a chevron to make the body. With a head this size, a seven thread body should suffice. One color can be used, but since it looks better, we'll use two. This way there is a definite top and bottom to the fish. Spiral a white thread up and a blue thread down the blank touching only the right side of the head. The upward threads will form the bottom of the body. Do not wrap any threads to the left of the head until the final stages of the last step. Colors, of course, are your personal preference. I prefer a mylar bottom as it impersonates fish scales. Continue the alternating sequence until all seven threads are in place. Aligning the tail section is the most difficult. It must be placed 4 thread widths to the right of the body. I use imaginary extensions of the body for this. Like Loran, I use the body as the master and secondaries. The master is the center split. My two other fixes come from the aft slope of the top and bottom chevrons. These imaginary lines are drawn parallel and 4 thread widths away from, the body. The intersection of these three lines marks the center of the tail. From this point, spiral a blue center thread. Now form a split diamond with blue to the left and dark, or background, to the right. Build the split until it touches the body and add one or two threads to the left of the head as dorsal fins. Now complete the closed wrap and the fish is ready. This last step gives the fish a flat tail. Now let's give it a little class by adding a curved tail and a decent set of dorsal fins. Wrap the white thread "plus-one." That is, one blue/one dark, one blue/two dark. Each time a pass is made add another dark. This, by itself, results in a curved tail. In order to add curved dorsal fins another change is needed. This time the wrapping sequence is as follows:

A) one blue, up and down, to the left of the head.

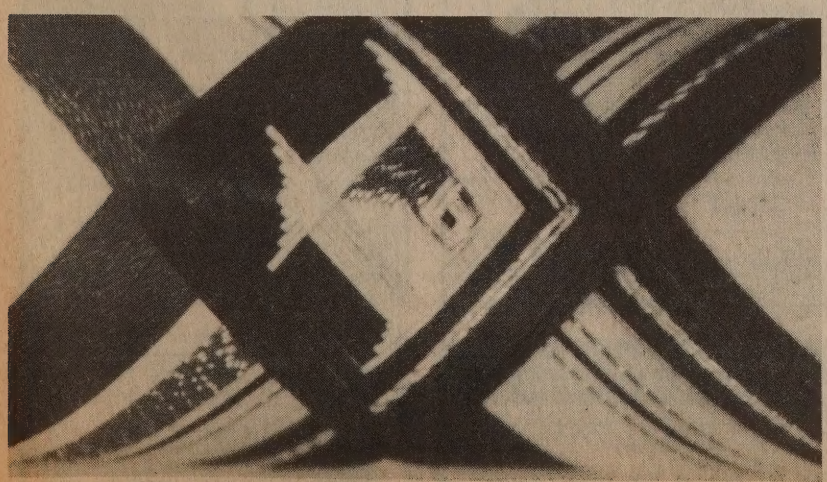
B) one blue, up and down, left tail.

C) one dark, right tail (plus one).

This continues, adding a thread to C each pass, until the tail touches the body. The chevron trim is then added into the border before closing the design. By the way, this pattern is an excellent candidate for a slanted layout. Other variations would include a solid body color, or even stripes.

Remember, experimentation is the name of the game. There are many undiscovered variations and design possibilities for this and any other pattern. If you think that exposing the myth of the complex fish was simple, wait until next week when we turn a diamond into a circle.

The tail layout is built using a split diamond.



Fish wrap requires chevrons, trim, split and diamonds.

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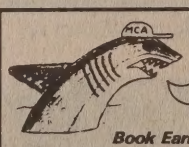

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South Shore REPORT

with Fred Golofaro

Mother Nature provided us with a taste of things to come this past week and much of the weekend. The fine weather convinced some boatmen to pull their winter covers and attempt to cull some flounder out of the mud. At least one pair of Great South Bay anglers succeeded in doing just that and we have every reason to suspect that a few other flatties were probably rousted from their winter lethargy by persistent sinker bouncers.

Trout continue to be a dependable diversion for other anglers, while codfishing remains basically picky with an occasional good day mixed in.

MORICHES BAY & INLET

Larry Dallaire of **L&M Marineland** in East Moriches said that despite the spring like weather of last week there was a total lack of interest in flounder. He thought for sure the nice weather might prompt a few guys to give it a try. As a result, he had no word on the status of the Quogue Canal flounder situation.

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J&R Sports Center in Oakdale, Al Colban reported that he spent Satur-

Ten-year-old Bill O'Connor with a pair of 14 inch fluke taken last summer in Moriches Inlet.

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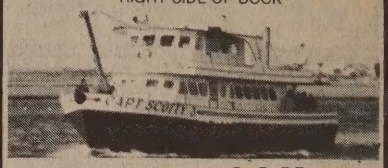

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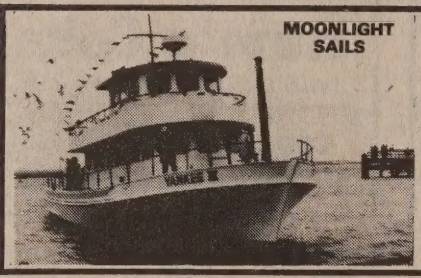

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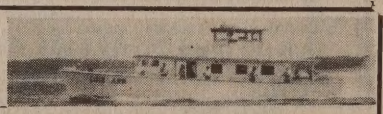

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day aboard the Captree open Boat **Captain Scotty 3**. He said that fares managed to drill a few fish from offshore wrecks and figured the day's catch at 10 to 12 cod on the boat. He did speak to some anglers who reported making some good catches during the week aboard the Scotty. Closer to home, Al heard from a reliable source that there was a nice catch of flounder made opposite Good Samaritan Hospital on Friday. He knew for a fact that several clammers picked a few flounder during their workday this week and one reported five big flats south of Heckscher. No white perch reports this week, but some nice trout to 3 pounds plus being taken in Connetquot State Park. Still good action at Bubbles and Rattles with small fish dominating the action in those places. A couple of anglers reported taking some school bass and white perch at the Lilco outflow in Northport.

Gil Bergen who oversees operations at the very popular Connetquot River State Park said that since the February 1st trout opening, there's been lots of activity with plenty of anglers taking advantage of the premature season. Gil emphasized that fishing conditions are often difficult at this time of the year with numb fingers and iced guides a frequent nemesis. Still, fishing has been good with a nice mix of holdovers and sea runs. The largest fish Gil has seen was a hefty 24 inch brown. Nymphs and streamers fished slow and deep account for most of the action at this point in the season. One caster reported very good results with a deeply fished black leech.

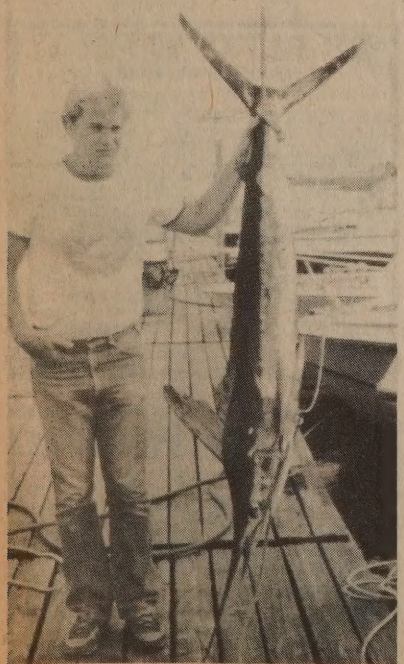
Captain Speedy Hubert of the Captree open boat **Speedy VIII** reported Sunday was his last trip of the season. He will be headed for a North

Carolina shipyard where the stern area will be redesigned to provide plenty of fishing room for the coming season. Sunday was a tough day with 77 fares managing just 20 cod along with a few pollock and ling. The fishing paled in comparison to Friday's action when 60 big cod were drilled from the remains of the Oregon. Pool winner on Friday tipped the scales at 65 pounds. Speedy added that Captain Nick Manzari will keep the Speedy VII at least for another few weeks, weather permitting.

Captain George Tweedy of the Captree open boat **Captain Scotty 3** spoke of some pretty good cod action during the week with catches averaging 40 feet a day. Friday's score dropped to a dozen fish, Saturday saw 10 cod taken and Sunday saw a like amount. All fishing continues to be done on the wrecks.

From **Augie's Tackle Shop** in Babylon came the first confirmed flounder catch. Tom Healy reported that a pair of anglers who failed to leave their names stopped by the shop to show 10 flatties up to 2 pounds taken on Saturday in the bay. They reported using fresh skimmer clams as bait. Tom reported that there have been some small bass at Lilco. Best scores have been made on small swimming plugs like the Rebel Bomber and Rapala. Tom knew of some good trout action in Connetquot State Park the first week of the month but had no news concerning the fishing this week. A few attempts at white perch proved fruitless.

Frank Pristera of **Edelman's** in Farmingdale said that a couple of guys tried floundering this weekend



K. Sullivan boated this white marlin 50 miles southeast of Jones Inlet last August. It was his first.

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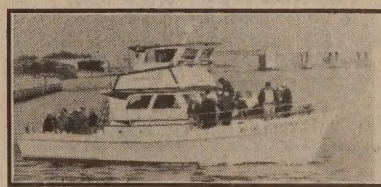

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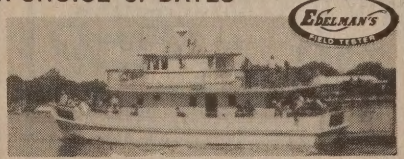

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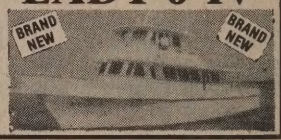

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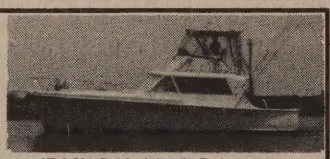

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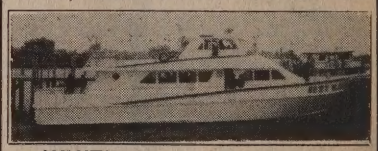

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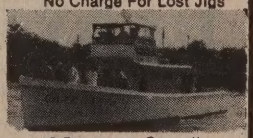

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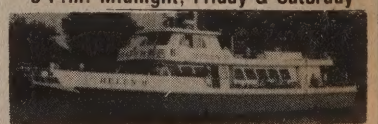

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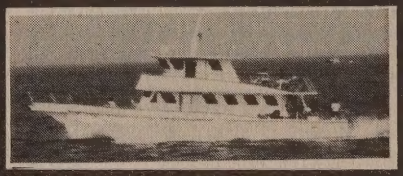

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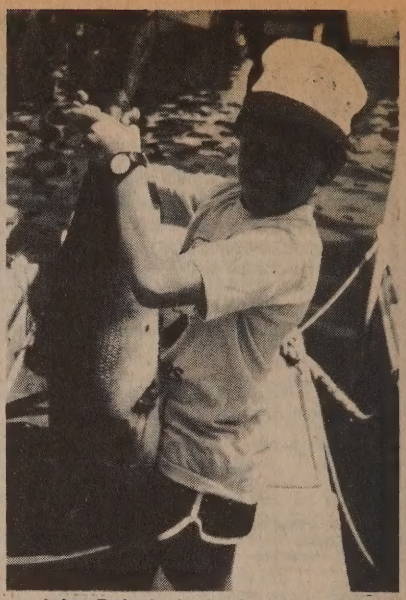

John Palmieri, Jr. hefts a 15½ lb. blue he boated in the western Sound last September. John's dad runs John's Gun and Tackle in New Rochelle.

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but none reported back with the results of their efforts. Frank reminded that they now have a 130 lb. class winding machine in the store and are now capable of spooling 130 pound class reels. Also in stock is Janki Line which should be of interest to the offshore set.

West End REPORT

with Stu Miller

Codfishing this week took a steep slide downhill. Catches on cod boats were very picky and sizes of fish diminished quite a lot on those fish that were caught. Whether this was due to conditions on the wrecks themselves or the steady pounding of the wrecks by the open and private boats, who can say. However, as we all know, things can bounce back in a matter of just a couple of days, and this is what we are all looking forward to.

NEW YORK BIGHT

We hear from Charlie at **Mike's Bait and Tackle** that the **Helen H** fishing Ambrose and Scotland areas this past week including their night trips had good catches of whiting and ling. On the blackfish scene, it was noted that things slowed down this past week.

High Tide Tables

How to use tide tables: To compute the high tide for the area you wish to fish, simply find the closest area on the conversion table. Add or subtract the hours and minutes as indicated from that area station above. Example: Shinnecock Inlet . . . −0 50 is listed under "On SANDY HOOK." −0 50 means you subtract 50 minutes from the times given for the SANDY HOOK STATION for the day you are going fishing. This is the approximate time for the high tide in the area. For low tide, add 6½ hours to this figure.

DAY	SANDY HOOK AM	SANDY HOOK PM	BREAKWATER HARBOR AM	BREAKWATER HARBOR PM	NEW YORK AM	NEW YORK PM	NEW LONDON AM	NEW LONDON PM	WILLETS POINT AM	WILLETS POINT PM	BRIDGEPORT AM	BRIDGEPORT PM	NEWPORT AM	NEWPORT PM	DATE
THURS.	6:45	7:10	7:40	7:55	7:30	7:55	8:15	8:50	10:45	11:10	10:10	10:35	6:40	7:00	2/12
FRI.	7:25	7:50	8:20	8:30	8:05	8:30	8:50	9:20	11:05	11:25	10:50	11:10	7:20	7:40	2/13
SAT.	8:00	8:25	8:50	9:05	8:40	9:05	9:30	9:55	11:25	11:45	11:25	11:45	8:00	8:20	2/14
SUN.	8:35	9:00	9:25	9:45	9:15	9:35	10:05	10:30	11:50	—	—	12:05	8:40	8:55	2/15
MON.	9:10	9:35	10:00	10:20	9:45	10:10	10:45	11:10	12:14	12:25	12:20	12:35	9:15	9:35	2/16
TUES.	9:45	10:20	10:40	11:00	10:20	10:45	11:25	11:50	12:45	1:05	12:55	1:15	9:55	10:15	2/17
WED.	10:25	11:00	11:20	11:45	10:55	11:30	—	12:10	1:25	1:50	1:35	2:00	10:35	11:00	2/18
THURS.	11:15	11:50	—	12:05	11:40	—	12:35	12:55	2:10	2:40	2:15	2:45	11:25	11:55	2/19

On Sandy Hook

STATEN ISLAND	+0 27
ATLANTIC HIGHLANDS	−0 01
Red Bank, Navesink River	+1 48
Long Branch	−0 34
SHARK RIVER INLET	−0 18
Shark River Basin	+0 27
MANASQUAN INLET	−0 12
Seaside Park	−0 33
Mantoloking bridge	+5 34
TOMS RIVER	+4 37
Waretown	+2 33
BARNEGAT LIGHT	−0 20
Manahawkin Bridge	+2 33
Beach Haven	+1 47
LITTLE EGG INLET	−0 01
Seven Islands	+0 12
Graveling Point	+1 05
Mullica River	+1 55
Grassy Bay	+1 08
ABSECON INLET	+0 14
Atlantic City Pier	−0 26
Great Egg Harbor Inlet	+0 12
GREAT EGG HARBOR	+0 44
CORSON INLET	+0 09
TOWNSENDS INLET	+0 06
HEREFORD INLET	+0 02
Grassy Sound Bridge	+0 45
Cape May Harbor	−0 02
Rehobeth Beach	−0 07
INDIAN RIVER INLET	+0 41
SHINNECOCK INLET	−0 50
Shinnecock Bay	+1 25
East Quogue	+2 45
Shinnecock Canal	+1 18
Indian Reservation	+3 05
MORICHES INLET	−0 56
Smith's Point	+3 28
Hart's Cove	+1 30
Pontunk Point	+3 35
Mastic Beach	+3 28
FIRE ISLAND INLET	−0 38
Democrat Point	−0 38
Coast Guard Station	−0 19
Fire Island Light	+0 47
GREAT SOUTH BAY	
Sayville (Brown Creek)	+3 39
Heckscher State Park	+3 20
Bay Shore	+2 23
Babylon	+2 12
Amityville	+2 21
JONES INLET	−0 19
Zachs Bay	+1 25
Seaford Harbor	+2 05
Freeport Creek	+0 34
E. ROCKAWAY INLET	−0 06
Long Beach Bridge	+0 19
ROCKAWAY INLET	0 00
Beach Channel Bridge	+0 38
J.F.K. Airport	+0 26

On Bridgeport

Lloyd Point	+0 08
Cold Spring Harbor	+0 08
Bayville Bridge	+0 13
Eatons Neck Point	+0 03
Northport Bay	+0 03
Norwalk Islands	+0 10
Smithtown Bay	+0 08
Cranes Neck Point	+0 05
Port Jefferson Hbr. entrance	+0 03
New Haven Harbor	+0 08
Mount Sinai Harbor	+0 05
Herod Point	−0 07
Mattituck Inlet	+0 05
Horton Point	−0 20
Truman Beach	−0 42
Falkner Island	−0 13
Sachem Head	−0 10
Branford Harbor	−0 07
New Haven Harbor entrance	−0 08
Milford Harbor	−0 07
Stratford, Housatonic River	+0 27
Shelton, Housatonic River	+1 36
Black Rock Harbor entrance	−0 03
Saugatuck River entrance	−0 01
South Norwalk	+0 10
Greens Ledge	−0 01
Stamford	+0 04
Cos Cob Harbor	+0 06
Greenwich	+0 02

On New London

Orient	+0 36
Little Gull Is. (Race)	+0 12
Greenport	+1 04
Southold	+1 43
New Suffolk	+2 26
South Jamesport	+2 32
Shinnecock Canal	+2 33
Noyack Bay	+2 05
Sag Harbor	+0 59
Three Mi. Hbr., Gardiners Bay	+0 21
Promised Land, Napeague Bay	−0 14
Montauk Inlet	−0 25
Montauk Point, north side	−1 13
Niantic	+1 20
Stonington, Fishers Is. Sound	−0 33
Noank, Mystic River ent.	−0 23
THAMES RIVER	
Smith Cove entrance	−0 01
Norwich	+0 12
CONNECTICUT RIVER	
Saybrook Jetty	+1 10
Lyme, highway bridge	+1 24
Essex	+1 38
East Haddam	+2 41
Higganum Creek	+2 54

On Willets Point

Little Neck Bay	−0 10
Execution Light	0 06
Manhasset Bay	−0 01
Hempstead Harbor	−0 11
City Island	−0 03
Rye Beach	−0 28
Port Chester	−0 09
Mamaroneck	−0 08
New Rochelle	−0 24
Davids Island	−0 02

On Breakwater Harbor

CAPE MAY POINT	−0 10
Miami Beach	+0 17
East Pt., Maurice River Cove	+0 53
Egg Island Point	+0 33
Cape Henlopen	−0 05
ROOSEVELT INLET	+0 09
Mispillion River entrance	+0 33

On New York

Jersey City	+0 07
George Washington Bridge	+0 46
Spuyten Duyvil, W/RR bridge	+0 58
Ossining	+1 53
Peekskill	+2 24
West Point	+3 16
Newburgh	+3 42

On Newport

Sakonnet	−1 10
Tiverton (between bridges)	+0 21
Beavertail Point	−0 02
Prudence Is., Sandy Point	+1 10
Bristol	+1 10
Warren	+0 21
Nayatt Point	+0 12
Pawtucket, Seekonk River	+0 21
East Greenwich	+0 16
Wickford	+0 12
Narragansett Pier	−0 08
Point Judith Hbr. of Refuge	−0 07
BLOCK ISLAND	
Great Salt Pond	+0 05
Block Island (Old Harbor)	−0 14
Watch Hill Point	+0 44

Sunrise/Sunset

DAY / DATE:	RISE:	SET:
THU. 2/12	7:00	5:27
FRI. 2/13	6:59	5:29
SAT. 2/14	6:57	5:31
SUN. 2/15	6:56	5:33
MON. 2/16	6:54	5:34
TUE. 2/17	6:52	5:35
WED. 2/18	6:50	5:37

Moonrise/Moonset

DAY / DATE:	RISE:	SET:
THU. 2/12	4:10PM	6:35AM
FRI. 2/13	5:15PM	7:05AM
SAT. 2/14	6:20PM	7:30AM
SUN. 2/15	7:25PM	7:52AM
MON. 2/16	8:30PM	8:10AM
TUE. 2/17	9:35PM	8:30AM
WED. 2/18	10:45PM	8:55AM

Moon Phases

NEW	1st Qtr.	FULL	Last Qtr.
2/28	3/7	2/13	2/21

The Original Knight SOLUNAR TABLES

The schedule of solunar periods below will help plan your day so that you will be fishing good areas during the time when the fish should be most active. The tables are not a guarantee you will catch fish, however.

The major periods begin at the time shown and last for 1½ to 2 hours thereafter, and are in the bold typeface. The minor periods are shorter in duration and the lighter typeface.

	AM		PM	
	Minor	Major	Minor	Major
Thurs.	3:45	**9:50**	4:00	**10:15**
Fri.	4:30	**10:35**	4:45	**10:55**
Sat.	5:10	**11:20**	5:30	**11:45**
Sun.	6:00	**—**	6:25	**12:10**
Mon.	6:45	**12:35**	7:10	**12:55**
Tues.	7:30	**1:20**	7:55	**1:40**
Wed.	8:15	**2:05**	8:45	**2:30**
Thurs.	9:05	**2:55**	9:35	**3:20**

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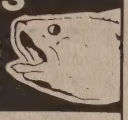

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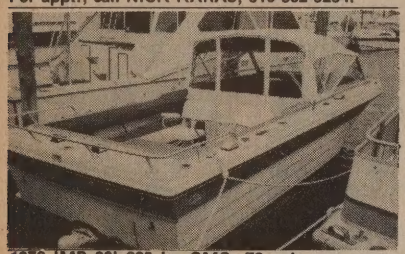
Mariner Outboards; Dell Quay boats. Metzeler inflatables. NASSAU CYCLE CENTER, 516-931-7180.

1983 PRO-LINE Cuddy full curtain 23' '85 Merc. 200. Shoreline trailer. Full elec. Many extras. Offshore equip. Mint cond. M.S.T.A. Used 2 yrs. Many extras; only $16,500. This boat is new. Days only: 914-739-7533.

28' COLUMBIA II
Here's your chance to turn the key on fully equipped 28' sportfisherman, teak bow pulpit & transom platform. Every imaginable accessory, from Furuno 240K radar to Robertson 100A auto pilot, interphased with a Micrologic Loran receiver; incl. Lowrance X-16 depth recorder, 2 digital recorders w/3 transducer selection, printing sea water temp, VHF, CB & stereo radios. Long list of much more. Powered by Merc 260 hp I/B w/170 gal. fuel capacity. Stand-up tower w/dual stations & full instrumentation topside. Big insulated fish boxes in deck & built-in tackle boxes in seats. Boat was built Long Islander Fred Scopinich. Now fully rigged, stored inside. Ready for viewing; water ready at turn of the key when fishing season starts. After you've seen the bare boats at the shows, come see a compl. fishing machine. All this for just $59,950. For appt., call NICK KARAS, 516-862-9254.



1972 IMP 23' 225 hp OMC, 72 gal. gas, power winch, VHF, X-15DF, Furuno loran. Outriggers, dual batt., legal head. Full canvas, fish box, baitwells, 2 fishing chairs. Full CG equip. Economical & fast. In water. Ready to fish. $8500. Days: 378-9251. Eves: 546-8677.

Alura 30

SPORTFISH Cruiser 30' by Hunter Marine. Full keel design, 6' 4" cabin w/galley & head. Huge cockpit. Introductory special [illegible] w/270 hp. FOB. SOUTH SHORE BOATS, 516-288-2400.

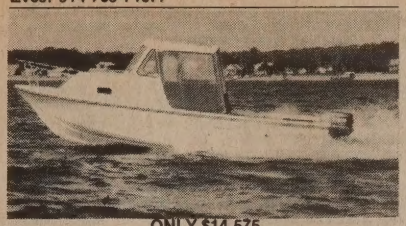
1982 BLACK FIN 25' Combi, 165 hp FWC Cruisaders, electronics. Extra 30 gal. tank totals 150 gal. gas. SW Washdown, canvas. Many extras. Low hrs. Best offer over $30,000. 212-288-2297.

1979 GRADY WHITE Sprint 17' 70 hp Evinrude. Trailer & full canvas. $3750. 718-225-4043.

OUTBOARD WANTED: 10-25 hp. Short shaft. Good cond. Reasonable price. Eves: 516-692-8583.

28' TOPAZ '82 twin Volvo diesels. Tower w/radar & full encl. Full electronics. This boat is fully equip & ready for any type of fishing—inshore or canyon. Fast & very economical. X-tras too numerous to list. Mint cond. $65,000. 718-253-9162.

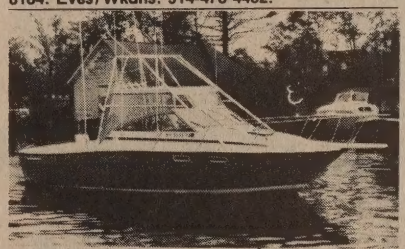
1986 VIKING Sportfisherman 35' twin Turbo Cats, tower, state-of-the-art electronics, fight chair. Avon life raft. Call for details. $175,000 Firm. Eves: 914-769-7107.



ONLY $14,575
21' STEIGER CRAFT Cuddy, 115 hp Mercury P/Trim, 45 gal. tank, 2 pedestal chairs standard. Freight & prep. incl. MARINELAND: Mattituck, 516-298-4020. Long Beach, 516-889-5000. East Moriches, 516-878-4777. Freeport: 165 Atlantic Av, Freeport, NY; 516-868-6446. Bklyn: 3260 Flatbush Ave., 718-692-1900.

MAKO 23, 1981 235 hp Evinrude. 2 recorders, VHF, AM/FM cassette, SS Prop. Many extras. Excl. cond. $12,500. 516-334-3453.

1985 AQUASPORT 290 XF. Tuna tower w/controls, outriggers, twin 260 Mercs., Freedrop windlass, color video sounder, Loran, VHF, AM/FM cassette, FW engine flush. Digital depth finder, vapor detector, Microsyncs, trim tabs w/controls/indicators. Macerator, circ. baitwell, fishbox, cockpit encl. Permanent winter cover/frame. Winter storage paid. Halon sys., seawater temp gauge, fight chair Mt. $79,000. Wkdys: 914-636-8184. Eves/Wkdns: 914-478-4462.



1985 BAYLINER Trophy t/225 FWC 28'. Sleeps 5. Stand-up head w/shower, stove, shorepower cable. refrig., hot water heater, batt. charger. Bait rigging station w/sink, tackle drawers, table outside cabin. Tuna tower w/rocket launcher, lifting eyes for block & tackle. New canvas, 2 Lorans, CBh, VHF, paper recorder. Outriggers, 6 pole holders, SW washdown. Many extras. Moving up to a bigger boat. Ask: $32,000. Jim Kavanagh, 8-4: 516-737-6541. 6-10: 516-666-7722.

1968 BERTRAM 25' Flybridge, outriggers, gin pole, trim tabs. Twin 81 225 hp Chryslers, 200 hrs. Dual control, VHF, Loran, downriggers, fish chair. Much more. $23,000 Firm 212-921-2600/595-7984. Wknds: 516-329-0447.

JC 31' w/375 V6-71 T.I. 3-station steering, flybridge. Full electronics. Insulated fish hold, 250 gal. fuel tank, fight chair. Excl. canyon boat. Excl. cond. $78,000 Firm. 1-203-838-0503.

BLACKFIN 86 32' SF, twin 350 Crusaders, FWC, heat & a/c, instant hot water, teak coverboards aft, full teak pulpit w/SS rails, free drop windlass. Full teak swim platform, Pompanette SF 130 fight chair. Rupp outriggers, raw/fresh washdown. Bimini w/full enclosure. Northstar 800X Loran, Furuno FCV 501, digital DF, Icom VHF. Loaded for fish or cruise. Mint. Low hrs. Lists over $150,000. Best offer. 516-599-6543/867-4660.

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6-$599; 8-$699; 9.9-$949; 40-$1599; 50-$1999; 70-$2499; 88-$2699; 110-$2999; 225-$4999. SEALAND MARINE, 48 Merrick Rd., Amity Harbor, NY 11701. FOB/WI. Ship anywhere. 516-842-1242.

BERTRAM 28 Flybridge, twin 1986 340 hp Mercruisers, FWC. Radar arch, Furuno 24 mi. radar, 217 gal. fuel capacity, hydraulic steering, Loran, VHF, CB, water temp gauge, paper machine, mini synch. Bimini top, gin pole, trim tabs, outriggers. Extra props. Excl. cond. $55,000. After 6PM: 516-665-5723.

WHALER OUTRAGE 21', twin 1979 Evn. 140s. Hydraulic steering, 65 gal. fuel. EZ Load trailer. New boat; must sell. Best Offer. Days: 914-967-6285. Eves: 914-967-4855.

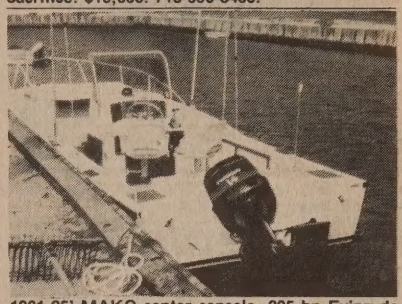
GRADY WHITE 1984, 226 Seafarer, 22' 6" walkaround cuddy cabin. Loaded. 1984 235 hp Johnson, SS Prop, 1984 9.9 Johnson kicker. Cox 4000 tandem axle trailer w/brakes. $26,900. 1-617-362-2243.

MAKO 254, T150s, custom leaning post, Loran, X-15, VHF, CB, chair, sea temp. Ask: $24,000. Days: 472-4900. Eves: 472-4133.

MANATEE 207 VC, 21' cuddy. Full canvas, VHF, compass, Porta-Potti, 64 qt. cooler. Mercury 115 hp EL/PT, 2900 lb. Shoreline trailer w/power winch. Much more. Purchased new 5/86. Used only 19 hrs. $13,000 Neg. 516-585-1227.

1986 25' STEIGER CRAFT, 150 hp Merc., full encl., rod holders, windlass w/pulpit. $17,995. 516-288-2400.

32' FOREST Johnson Prowler, twin 225 Mercs. Tower, outriggers, radar, chart. Boat in water. Sacrifice. $10,000. 718-996-8436.



1981 25' MAKO center console, 235 hp Evinrude +25 hp Evinrude Aux., 120 gal. capacity. 8 rod holders, Lee outriggers, 1 Penn downrigger. Dytek water temp, Lowrance, white line LRG 1510B. Raynav 750 MK II Loran, VHF, CB. Digital depth recorder, Ritchie compass, SW washdown. Full cushions, spray hood, livewell & aerator. 2 bilge pumps, 2 batt. w/switch, power tilt, thru-hull transducer. $19,500. After 6PM or leave message on machine: 516-728-8202.

1985 GRADY WHITE 19' Tournament, 1985 175 Johnson PTT/VRO. 40 MPH+, SW washdown, 6 rod holders, outriggers. Cybernet VHF, Humminbird LCD3000 recorder. Swim platform, Mills full custom canvas. Full instrumentation. Absolutely mint. Bob Cooper, Days: 212-397-6500. Eves: 212-686-0295.

SEA CRAFT 1973 23' center console, 1984 Evinrude 235. Electronics. Better than a Mako. Ask: $12,900. 516-536-8875.

SHAMROCK 26' 1984 cuddy cabin, 250 hp FWC I/B. Low hrs. V-bunks, cushions. Encl. head. Large fiksh wells. Navy top, side curtains. Full cockpit cover. Custom teak hand rails, cockpit. VHF radio, DF, Loran, SS bowrails, trim tabs. Dual batt. w/SW. Large dual fuel filters & intake water filter. Easy access oil change. 4 SS pole holders, outriggers. Teak rod holders. Full CG equip. Very stable; fast; economical. Bought new 6/85. Original owner. Top mint cond. $25,750 or best offer. 718-934-2684.

SPORTCRAFT 1981 27', flybridge, 260 hp I/B. Outriggers, full canvas. More. Used freshwater. Ask: $25,000. 315-652-6996.

1984 VIKING Sportfisherman 46', 892 TIs, 13.5 generator. New engines. Boston Whaler, loaded. $360,000. 212-687-7970.

1979 TROJAN Sportfisherman 36', tuna tower, 340 Mercs, generator, radar, fish finder. New engines. Loaded. $75,000. 212-687-7970.

17' BOSTON WHALER, 1985 90 hp Evinrude. Large center console, 1985 Galv. trailer. $4200. 914-664-3548.

86 CHRIS Scorpion, 200 hp Merc. Gil bracket, sterndrive, 50 hrs. Terry: 718-327-3088.

1984 MANATEE 207VC 21' Cuddy, 115 hp Merc EL/PT. Shoreline trailer, power winch, VHF, CB, depthfinder. Extras. 75 hrs. Mint. $11,500. 516-979-0629.

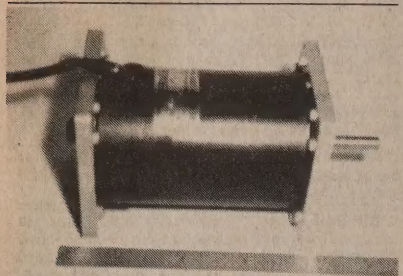
18' BROWNING, 150 hp Merc. Both 1975. Chart recorder. Set up for fishing. Too many extras to list. Engine needs some work. $995. Call for details. 718-263-7012.

Continued On Next Page

26' BLUE FIN 1977, twin 454s 12' beam, 1/2 tower encl. Electronics, outriggers. Lee fish chair. $16,500 Firm. 516-722-3575.

1983 23' ROBALO center console, 200 Merc, VHF, T-top, D/F & trailer. $14,995. 516-288-2400.

25' MAKO 1978 center console. Loran, depth finder, paper recorder, CB, VHF, flood light, 18' outriggers. Compl. canvas cover. Installed new 1986: twin 150 hp O/Bs, hydraulic steering, wiring & 4, 95 amp batts., gauges & controls. 516-878-1180.



NEW 12V DC 1/8 hp motor. Exceptionally powerful 2½ dia. x 4¾ lg. x 1/4 shaft. Suitable: pumps, fans, reels. $10 ea + $2 shipping. R. Heidecker, 27 Bayview Terr., Manhasset, NY 11030. Eves: 516-869-8136. Days: 212-570-8829.

CAPTAINS & MATES WANTED: Full or P/T. Experience required. Good personality. Must be 16 or over. BLUE FIN Freeport Charter Boats, 718-352-2986.

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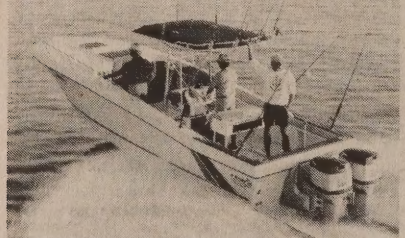
Super Sale! 150 & 200 hp V6s w/SS Props. First w/ oil injection. 2 to 200 hps. Also in stock. JENSEN MARINE, 516-226-9739.

SEA NYMPH 14' Aluminum boat, 1983 15 hp Evinrude. Trailer. Many extras. Mint cond., $1500. 516-281-4159.

BOSTON WHALER 19' 1978 Outrage, 115 hp Johnson & 15 hp 1981 Johnson. Spray hood, Bimini, ice chest seat, etc. $7500. On display at PORT OF EGYPT, Southold, 516-765-2445.



265 LARSON Cuddy. Sleeps 2. Twin 1.8 Seadrives, 165 gal. w/option 55 gal. addt'l. Full T/Tower, dual controls. Leaning post, rocket launcher. Loaded for canyon. Pre-season special-$45,000. H.K. MARINE, M-F: 516-599-6543. Eves & W/E: 516-867-4660.

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Remember, if it has anything to do with compasses at all, give me a call! Huge inventory of Ritchie compasses. Expert installation & adjustment. Authorized repair service. I also carry a complete line of binoculars, sextants, clocks, barometers. JENS JACOBS NAUTICAL SERVICE, 516-757-7169.

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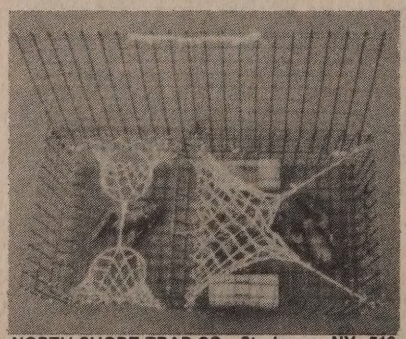

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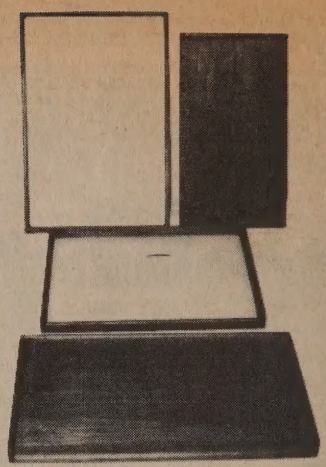

TEAK Bait Cutting & Rigging Boards/trays. Stainless steel base fits flush rod holders. Various sizes & types. Also chunking boards-fit over 5 gal. bucket. All items handcrafted in USA & reasonably priced, free shipping. For info & prices write to: Dealers too: CLIMAX CO., 251 NJ RR Ave., Newark, NJ 07105.

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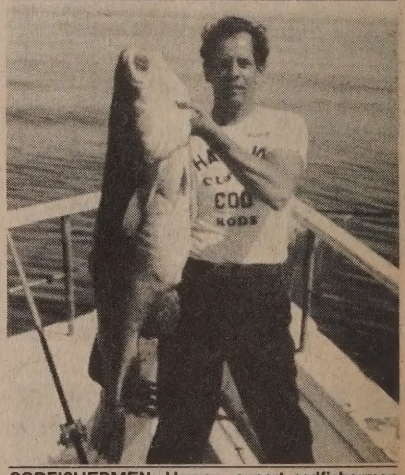

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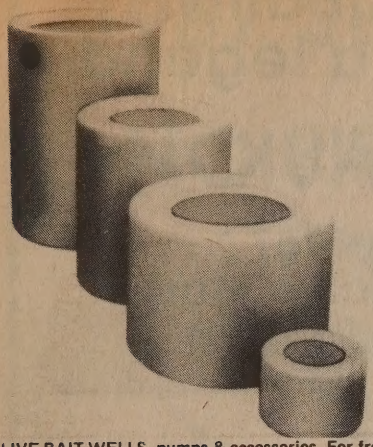

LIVE BAIT WELLS, pumps & accessories. For free brochure, send $.25 p/h. THE CADDY CO., 57 Bayonne Av, Dept. E, Central Islip, NY 11722; 516-234-0144.

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Yes, I would like to "Send-A-Kid Fishing" this summer.
Enclosed is a donation in the amount of $_____

Name _____

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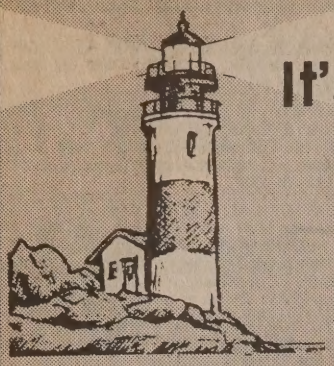
Make checks payable to: "SEND-A-KID FISHING." All donations should be sent to: Post Office Box 1994, Bridge Street, Sag Harbor, New York 11963



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17' MONTAUK

Complete with 1987 Evinrude 88 H.P. Electric Start & Cox Galvanized Trailer

- Unsinkable
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THIS SUPER PACKAGE ALSO INCLUDES:

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Ready to go! **$11,399.** *Limited Quantities*

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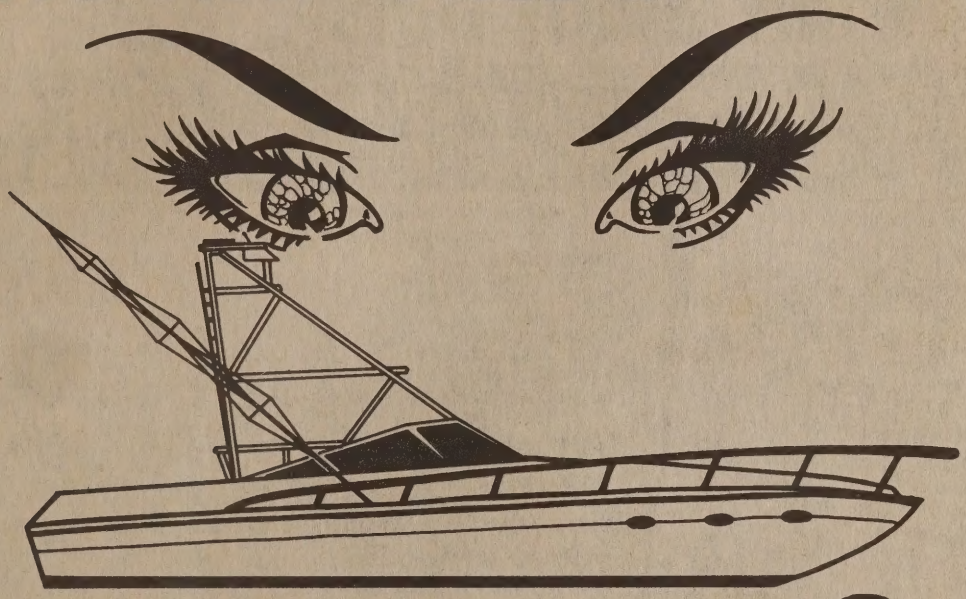

Fast 35' Magnum Sportfisherman

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★ Six Man Charters
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Si-Tex, synonymous with quality has worked hand and hand with Shane's Marine enabling us to offer the 855 VHF at this special price. There are limited quantities available on this all U.S.A. and International Marine Channel VHF, so they are offered on a first come first serve basis.
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- ☐ MARS VIGIL RADAR
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- ☐ RAY JEFF T880 COLOR RECORDER
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Show Stopper **$229.95**
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Available in either 5" or 7" to accommodate your boat size. Chrome plated brass housings provide a watertight seal. Single panel remote control for a 450° horizontal sweep and a 70° vertical movement. 5 inch light is rated at 72,000 C.P. 7 inch light is rated at 200,000 C.P.

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ROD HOLDER MOUNTED TEAK FILLET & BAIT BOARD
Now Everyone can afford it!

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